





The Marquis of Stafford.



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THE
FAMILIES
OF
PLANTS

IN THREE VOLUMES

VOLUME I

THE
FAMILIES
OF
PLANTS.

IN TWO VOLUMES.

VOL. I.

[Entered at Stationers Hall.]

THE
FAMILIES
OF
PLANTS,
WITH THEIR NATURAL CHARACTERS,
ACCORDING TO THE
NUMBER, FIGURE, SITUATION, AND PROPORTION
OF ALL THE PARTS OF FRUCTIFICATION.

TRANSLATED FROM THE LAST EDITION,
(AS PUBLISHED BY DR. REICHARD)

OF THE
GENERA PLANTARUM,
AND OF THE
MANTISSÆ PLANTARUM
OF THE ELDER LINNEUS;
AND FROM THE
SUPPLEMENTUM PLANTARUM
OF THE YOUNGER LINNEUS,
WITH ALL THE NEW
FAMILIES OF PLANTS,
FROM
THUNBERG AND L'HERITIER.
TO WHICH IS PREFIX'D AN ACCENTED CATALOGUE OF THE NAMES
OF PLANTS, WITH THE ADJECTIVES APPLY'D TO THEM,
AND OTHER BOTANIC TERMS, FOR THE PURPOSE OF
TEACHING THEIR RIGHT PRONUNCIATION.

VOL. I.

BY A BOTANICAL SOCIETY AT LICHFIELD.

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TO ALL

Who for Amusement or Utility,

Attend to the World of VEGETATION,

And who speak the Language of

GREAT BRITAIN,

This invaluable Treasure of

BOTANIC KNOWLEDGE,

Is dedicated

By the TRANSLATORS.

TO ALL

Who for Amusement or Utility

Attend to the Works of DEVOTION

And who find the following

OF GREAT BENEFIT

This little Treatise of

POETRY AND WORKS OF DEVOTION

Is dedicated

By the Translator



PREFACE OF THE TRANSLATORS.

THE BOTANICAL SOCIETY at LICHFIELD are happy to have gained the approbation of the ingenious in BOTANY by their translation of THE SYSTEM OF VEGETABLES of LINNEUS. This they have discovered both by the increasing sale of that work; and by the repeated solicitations, they have received from several correspondents, to proceed in their undertaking. They now therefore offer to the indulgence of the public a translation of THE GÉNÉRA PLANTARUM, OR FAMILIES OF PLANTS of that great naturalist.

The Classes and Orders of Plants in the System of LINNEUS, however ingenious, are in general artificial arrangements, like the streets and squares of a populous city, a knowledge of which is nevertheless necessary to lead the inquirer to the *Families*, or *Genera*. But these Genera, or families of Plants, are all natural associations, and constitute the most valuable part of *Botany*, they have

have been investigated by the united labours of all the cultivators of *Botanic Science*; but were defined, finished, and arranged by the almost incredible efforts of our illustrious author. After the sixth edition of the *Genera Plantarum*, which was the last published under his own eye, LINNEUS added two mantissas of plants; one printed in the *Systema Naturæ*, and a second subsequent to it: the plants described in these mantissas have been distributed in their proper places in a new edition of the *Genera Plantarum* by D. J. J. REICHARD, printed at Frankfort in the year 1778. In this work Doctor REICHARD has corrected many of the generic characters in conformity to the thirteenth edition of the *Systema Vegetabilium* published by Doctor MURRAY; or has added an explanatory remark, where any difference has occur'd between the descriptions in that work and in the *Genera Plantarum*. He has also introduced the Genus *Gustavia* first defined by LINNEUS in a treatise on the plants of *Surinam* printed in 1776, with various other additions.

This edition of Doctor REICHARD we have follow'd in our translation, having added the letter R. to his remarks: except that we have made no alteration in the number prefix'd to each plant, as Dr. REICHARD has done, but have kept to the original numerals of the mantissas, and Supplement, according to the example
of

of Dr. MURRAY; and which coincide with those of our translation of the *System of Vegetables*. We have availed ourselves also of the improvements and additions dispersed in the last or fourteenth edition of the *Systema Vegetabilium* by Dr. MURRAY, printed at Gottingen, in 1784; having added the letter M. to his remarks, we have added the natural characters of all the plants from the *Supplementum Plantarum* of the younger LINNEUS; whose premature death is justly lamented by the Botanical world; these we have distinguished by the letter S. To these we have added a translation of the natural characters of the new families of plants from the *Flora Japonica*, and from the *nova genera Plantarum* of THUNBERG; and from the *Stirpes novæ Plantarum* of L'HERITIER, whose work is adorned with most beautiful plates, and the plants already in our Hothouses. Many of these are inserted in their proper places in the system, but as part of our work was printed off, before we could procure the whole of these publications, we were necessitated to add some of the plants from them in a Postscript at the end of the work. We have in general however omitted the colours and absolute magnitudes of the parts of plants introduced by THUNBERG, and L'HERITIER, which are both variable in themselves and unnecessary, and render the characters dissonant to those of LINNEUS. We have also omitted the character of the plant *Myristica*,
as

as given in the Supplement of the younger LINNEUS, having been apprized by Mr. DRYANDER that it was intirely wrong, being taken from SONNERAT's description of a flower which has nothing to do with *Nutmeg*, and have inserted THUNBERG's character, which was really taken from the flower of *Nutmeg*, in the Class *Monoecia*, *One House*. Mr. DRYANDER likewise apprized us of a mistake in MURRAY's *Systema Veget.* ed. 14. p. 270, where *Russelia* and *Vablia* are described as different plants, which are in reality the same, but we had not this information soon enough to insert it in its place, and of another inaccuracy in MURRAY's *Systema*, who has placed *Licuala* and *Nipa* in the class *Hexandria*, *Six Males*, and *Monoecia*, *One House*, while he retains all the rest of the *Palms* in the appendix.

We felicitate ourselves, (we hope not vainly) that in our translation of this work, we have given a portrait of our illustrious author, more accurately resembling the original, than has ever been attempted in any language. For not only the exact punctuation is observed in the printing with all the capital and italic letters, (which are nicely attended to in the original, for the purpose of falling readily under the eye of the Botanist, who is studying a recent plant), but the very arrangement of the words of LINNEUS, the method he so much valued, are all exactly copy'd in the translation, and

and hence the conciseness, the perspicuity, and the spirit of our author live, we hope, undiminish'd by the change of language. Infomuch that we flatter ourselves, that a Botanist versed in the original, when he is carelessly consulting the translation, will often for a moment forget which is in his hand; and like one, who meets an unexpected friend in a foreign dress, that he will recognize the sameness of his features; and, amid the pleasure of his conversation, pay no attention to the cloak or turban; which, without disguising, equally becomes the wearer.

ENGLISH GENERIC NAMES.

In compliance with the solicitations of several correspondents we have added all the generic english names, for which any good authority could be produced: and have translated a few others, where the meaning, however fanciful, could be supposed applicable to any quality of the plant; we hope indeed, that these may be of some use to the beginners in the study of Botany; but wish at the same time, that they may, as soon as possible, be buried in oblivion, or consigned alone to an index of synonymies; that all nations may speak the same language in this agreeable and important branch of science. For if it be desirable in general, that the terms of science should constitute an universal
language

language, like the characters in Astronomy and Chemistry, the letters and signs in Algebra, and the figures in Arithmetic, it is particularly so in the Botanic nomenclature: where the names of the *Genera* are merely arbitrary, and can not therefore with propriety be rendered by an equivalent term into another language.

In the preface to our translation of the *System of Vegetables* we observed, that there were two great inconveniencies attending the introduction of english botanic terms; such as “chive” for stamen, “pointal” for pistil, “tip” for anther, “summit” for stigma, “pouch” for silicle, “pod” for silique, “chives and pointals separate” for monoecia, or one house, “chives and pointals distinct” for dioecia, or two houses “various dispositions upon one plant” for polygamia and, the like. First that they are with greater difficulty associated with the ideas, they are designed to represent, having previously been in common use for purposes less nicely defined; and are thence also with greater difficulty retained in the memory, than the latin terms. Secondly, that the english botanist and the latin one could neither converse together, nor correspond, so as to understand each other, in either of those languages; these objections hold with redoubled force against the introduction of english generic names; since, as they are so much more numerous, they would produce so much

greater confusion, and *totally prevent the general communication of botanic knowledge.*

There are many other objections besides the above to an english nomenclature of the botanic Genera. First, that there are but few english generic names, which comprehend all the family of plants belonging to it in the system, for as the best of them were formed upon the genera of BAUHINE and the elder botanists, they very rarely coincide altogether with those of LINNEUS, thus if *Artemisia* were translated *Southernwood*, it would not seem to include *Mugwort* and *Wormwood*: nor would *Scurvygrass*, if used for *Cochlearia*, seem to include *Horseradish* and *Swine's cress*: nor would *Clary*, if used for *Salvia*, seem to include the *Sages*.

Second, that some of them must consist of words, which different english botanists have applied to different plants, thus if the genus *Myriophyllum* should be translated *Milfoil*, which by other english writers is used for a species of *Achillæa*, or the genus *Dryas* should be translated by the word *Avens*, which by other english writers is used for *Geum*, or the genus *Chlora* be translated *Centaury*, which by other english writers is used for *Gentiana*, or for *Centaurea*? what an exuberant source of perplexity would again deluge the science?

Third,

Third, that many of them must be taken from the catalogues of names rejected by LINNEUS, as *Gale* for *Myrica*, *Chamomile* for *Anthemis*, *Helleborine* for *Serapias*; which are names taken from TOURNEFORT, or RAY; would not this be an attempt to replace the rubbish in the Augean stables, which had so lately been removed by the labours of an Hercules? would it not render the english descriptions of plants totally unintelligible to the foreigners who had learnt our language?

Fourth, that many of them must be applied to genera different from those, which bear a similar name in the works of LINNEUS; as if *Chenopodium* should be translated by the word *Blite*, *Anthericum* by the word *Asphodel*, and *Chrysofplenium* by *Saxifrage*; *Jasione* by *Scabious*; when the words *Blitum*, *Asphodelus*, *Saxifraga*, and *Scabiosa*, are given by LINNEUS to other genera? what confusion of names must ensue? what absurdity be again introduced into Botany!

Fifth, that many of them must consist of compound words, which would seem to refer the plant to some other genus, as *Meadow-rue* for *Thalictrum*, *Toad-flax* for *Antirrhinum*, *Liver-hemp* for *Eupatorium*; and must thence greatly confound rather than assist the early labours of botanic students.

Sixth,

Sixth, that others must consist of the name of a species apply'd to a genus, as *apple* for *pyrus*, which would seem to exclude the pear and quince; *Groundsel* for *senecio*, which would seem to exclude the *Ragworts*; *Mezereon* for *Daphne*, which would seem to exclude the *Laureola*; and thus again endanger the confusion of the genera; the construction of which has been the great labour, and constitutes the stability and ornament of the science.

Seventh, that many english generic names must be totally new-invented ones, as *Weathercock* for *Impatiens*, *Velvet-leaf* for *Lavatera*, *Gipsie* for *Lycopus*; to this kind of foppery, if it were indulged, there could be no bounds; and that especially in the class *Cryptogamia*, where the greatest part of the plants, escaping by their minuteness the eyes of the vulgar, have acquired no vernacular names;

However refractory all these circumstances must appear to any one, who has well consider'd the construction of an english botanic nomenclature; yet has it been lately attempted by Doctor WITHERING in his translation of a *Flora Anglica*; under the name of *Botanical Arrangements*: with what success the reader will easily determine; when he is inform'd, that all the uncouth examples of names and terms above-

* c mentioned.

mentioned, amongst a multitude of others equally objectionable, and which are form'd in direct contradiction to the rules laid down by LINNEUS in the *Philosophia Botanica*, are taken from that compilation. To this we may add, that there is no plea from necessity in favour of such a nomenclature, for many of the LINNEAN names of genera are already become familiar to english ears, as *convolvulus*, *ranunculus*, *geranium*, *campanula*, *angelica*, *anemone*, *hepatica*, *asparagus*, *orchis*, *iris*, *crocus*, *aloe*, &c. &c. and many more of them are, as it were, annually naturalized to our climate; and, like the exotic vegetables transplanted into our gardens, gradually lose their novelty, and become mistaken for natives of the soil. We persuade ourselves from hence, that we have reason to appeal to all TRUE BOTANISTS; and to exhort them to unite their endeavours to propagate the LINNEAN names and terms amongst our countrymen; and to discourage every attempt to introduce an english botanic nomenclature: and we venture to prophecy, if the books of such Pseudo-botanists should ever be introduced into common use, that the science of Botany must become retrograde by their labours; that the world of plants, so lately reduced into beautiful order by our illustrious author, must again fall into a Chaos, and become a *War of Elements*.

It has occur'd to some of the ingenious in Botany, that a set of Numeric Names might be coin'd for the Genera, and even Species of Plants, somewhat in the manner propos'd by Dr. GREY in his *Memoria Technica*; which might be committed to memory, as easily as any other arbitrary sounds; and, when analyzed, might give the number of the Class, Order, Genus, and Species. To this design there is, however, the same objection, as to the Universal Language of the learned Bishop WILKINS; which is, that human science is not yet perfect enough to admit of such languages, however desirable they may be thought. Thus in Botany, the perpetual addition of new genera and species, or improvements in the arrangement of the old ones, must, for a long series of future time, confound such Numeric Names, however well adapted to the present classifications.

An ingenious french Botanist, Monsieur BERGERET, is now publishing at Paris an expensive work in folio-numbers, with colour'd plates, which he terms *Phytonomatotechnie*; or, *The art of giving names to plants, deduced from their characters*. Every one of these names consists of fifteen letters, each of which being refer'd to an alphabetical table, which belongs to it, unravels the description of the plant.

Thus

Thus *Ieqlyabiajifbey* expresses the description of *Belladonna*: by consulting the first alphabetical table *I.* is found to signify that the corol is five-cleft: *e.* in the second table expresses that the interstices of those divisions are not deep: *q.* in the third alphabetical table shews that the stamens are inserted on the germ by means of the corol, &c. In like manner *Gypmyabé-abustez* is both the name and description of *Draba*. It is easy to foretell, that words of such enormous length, though they may serve well for a botanic shorthand, must be too difficult to be remembered, or to be pronounced; and thence can never come into general use as a botanic language.

ACCENTUATION.

We beg leave, in this place, to return our thanks to the unknown authors of the learned Critiques in the Monthly Review, for June and July 1785, and in the Gentleman's Magazine for October 1785, on the Accentuation of the Indexes of generic and trivial names, printed at the end of the translation of the *System of Vegetables*. The design of accenting those Indexes was not thought of soon enough, and was, therefore, executed hastily; and by some mistake the correction of the press was totally neglected.

We

We have, therefore, affixed to this work an alphabetical Catalogue, not only of the generic and trivial Names of plants, with a revised accentuation; but also an accented Catalogue of all the latin adjectives used as trivial names of plants, with the latin names of the Classes and Orders, and other Botanic Terms; with design to propagate, as far as in our power, the more easy acquisition, as well as the classical pronunciation, of the latin terms of Botany; that an universal language may prevail, as far as possible, in this useful and delightful Science. For the want of such assistance many a stately edifice in Botany, which like the proud Tower of Babel, has threaten'd to pierce the skies with its summit, and to resist the ravages of time by the extension of its base, has been check'd in its progress by the confusion of the language of its builders, and crumbled into ruin.

To the observations on accentuation, printed at the end of our translation of the *System of Vegetables*, we beg leave to add the following.

First, As our marks are designed to determine the accent or emphasis, and not the quantity of pronunciation, we have placed them upon the first syllable, in all words of only two syllables; as, in our prose-pronunciation of dead languages, no emphasis is, in general, laid on the latter; as *Fágus*, *Zéa*.

Second,

Second, On such *sésquipedálian* words, as have more than two syllables preceding the final accentuation, we have sometimes added a previous accent, for the accommodation of the unlearned in latin: as *sérrati-fólia*, *lanúginósa*.

Third, Besides the emphasis on the vowels mark'd by our accents, a different pronounciation may be made according to the division, or junction of consonants, where there are two together in the centre of a word, as in the words *a-cris*, or *ac-rid*: or by pronouncing the central consonant with the preceding or succeeding vowel; as the word *arabica* may be pronounced either *a-ra-bica*, or *ar-ab-ica*. But as ancient writers have left no marks to inform us, how their languages were pronounced in this respect; and the moderns of different countries, and even of different schools in our own country, differ frequently in this circumstance of pronounciation; any attempt to regulate that part of enunciation, must have been founded totally on conjecture.

Fourth, All the sibilant consonants, as *f. th.* in *thigh*, *f. sh. b.* and all the semivocal sibilants, as *v. th.* in *thee*, *z. j.* french; *ch*, spanish; and also the nasal and oral liquids, *m. n. ng. l. r.* are all capable of elongation, in our pronounciation of them, as much as the vowels themselves. And lastly, the *b. d. and g.* in
go,

go, are capable of some degree of elongation of sound preceding them. So that excepting the *p. t. and k.* (or *c. hard*) when any consonant is joined to a vowel, we can in pronunciation protract the sound either of the vowel, or of the consonant, without altering the quantity of the syllables, as *a-mabilis*, or *am-abilis*; thus the word *banish* has the first syllable long, whether it be pronounced *baa-nish*, or *bann-ish*, as in this verse,

Our foes to banish, and our friends recall.

So the first syllable in the words *mi-nor*, *min-eral*; *live-ly*, *liv-id*; *ri-val*, *riv-er*; are all equally long, as may be proved by placing them in the fourth place of an heroic verse; but in the former words the syllable is elongated, by dwelling upon the vowel; and in the latter ones, by extending the sound of the succeeding adjoin'd consonant.

In words, where the consonant is thus protracted, or pronounced as if doubled, as in *bann-ish*, *rivv-er*; Dr. WATTS recommends a double accent to be used, to distinguish such syllables from those, where the emphasis is laid on the vowel. This, we imagine, may be done with propriety in a living language; but as the ancients, whether poets, or prose writers, have left no marks to acquaint us, whether the length of a syllable was made by dwelling on the vowel, or on the succeeding consonant annex'd to it, (except some of the
greek

greek accents may be supposed to possess this property,) we fear, an attempt to regulate this part of the enunciation, of a dead language, must have been altogether conjectural, or capricious.

But we hope, (and indeed, venture to fortell,) that a learned Botanist will soon favor the public with a *Metrice Botanica*; with the quantities of botanic names and terms, expressed by long and short marks, and with authorities from greek, latin, and arabic poets, or prose-writers, for those words which are esteemed dubious; a work much wanted, and which would be highly useful to the medical, as well as botanical world, and of great entertainment to every classical reader.

However necessary a knowledge of the learned languages may be for the acquirement of what is termed polite literature; as Poetry, Oratory, or Philology; it is certainly not essential in the study of natural history, since the ancients have left us little worth attending to, in this branch of science; and their best productions, as well as those of the modern philosophers of foreign nations, are, and we hope will continue to be translated into our language. Whilst the great volume of NATURE is written by the finger of THE ALMIGHTY in an universal character, and lies open to the inspection of every one, who is possessed of an inquiring spirit.

Among

Among those whose labours have contributed to diffuse the science of Botany in this Country Mr. LEE of *HammerSmith* seems to have taken the lead; who many years ago published an excellent outline of the *System* of LINNEUS in his *Introduction to Botany*; a work of great importance in the commencement of this study. Dr. POULTNEY, The Rev. M. STILLINGFLEET, and Mr. BRAND have translated many excellent botanic papers from the seven volumes of the *Amœnitates Academicæ*. Dr. POULTNEY also has published a good account of the Life, and numerous Writings of LINNEUS: and a Catalogue, from the *Amœnitates Academicæ*, of the plants most greedily sought after by various kinds of domestic animals; the result of above 2000 experiments, made under the direction of LINNEUS, for this purpose. This useful Catalogue was first published by Dr. POULTNEY in the Gentleman's Magazine for 1758, and has since been diffused, along with a Catalogue of the Insects feeding on various plants extracted from the same work, by Dr. WITHERING in his *Botanical Arrangements*. The learned Professor of Botany at Cambridge, The Reverend Mr. MARTYN, has translated an elegant little Tract of Mr. ROUSSEAU, explaining the natural Classes and Orders of Vegetables, consisting of *Letters on Botany* addressed to a Lady. And to complete the design has added above double the quantity

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of botanic knowledge with such agreeable eloquence, that no one can distinguish the original parts from the translated ones. Mr. ROSE, in his *Elements of Botany*, has translated the principal parts of the *Philosophia Botanica*, with many illustrative additions. Dr. COLIN MILNE, in his ingenious *Dictionary*, has also explain'd the principal parts of the *Philosophia Botanica*, and the *Essay* towards a natural method; and has given a good comparative view with many able remarks of the *Systems* of RAY, TOURNEFORT, and LINNEUS. Mr. SMITH, the purchaser of the LINNEAN Manuscripts, has translated a valuable Tract on the Sexes of Plants. And an useful synopsis of the *Linnean System* in a tabular form has been very lately published under the name of *Principia Botanica*, or, *A concise introduction to the Sexual Botany*, by R. W. D. Esq. To these if we add the elegant labours of Mr. CURTIS, and Mr. MILLAR, nothing was wanting to the English Reader but a translation of the FAMILIES OF PLANTS, and of the SYSTEM OF VEGETABLES, in a concise and expressive language, similar to that of the original. This the LICHFIELD BOTANICAL SOCIETY have attempted; and if any material errors should be detected in their work, they hope the public indulgence will ascribe something to the general difficulty of the undertaking; in which almost a new language was to be formed; and to the great labour of obtaining typographical

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cal accuracy, in a work where neither the general sense, nor the construction of the language, could give any assistance in the correction of the press.

They beg leave to conclude their labours by congratulating the English Student of Botany on the possession of writings translated or extracted from the works of LINNEUS sufficient for his acquirement of that useful and entertaining science: and earnestly wish, that some Philosopher, versed in other departments of Natural History, would translate into our language another work of the GREAT MASTER, on the Classification of Animals; and thus compleat the chain of the History of organized Nature. For Vegetables are, in truth, an inferior order of Animals, connected to the lower tribes of Insects, by many marine productions, whose faculties of motion and sensation are scarcely superior to those of the petals of many flowers, or to the leaves of the Sensitive plant, (*Mimosa sensitiva*,) the Moving plant, (*Hedysarum movens*,) and the Fly-trap, (*Dioneamuscipula*.) The winged Insects, as Bees, and Butterflies, are connected to the Birds, by the Humming-bird; which feeds on honey, and collects it with a kind of Proboscis, as it hangs on its vibrating wings. Birds are connected to Quadrupeds, by the Bat and Vampire. These are allied to Fish, by Seals and Crocodiles; and by the Monkey-kind to Man.

Thus

Thus is the great expanse of ORGANIZED NATURE divided into districts, and distinguished by names; but, as it branches over her mighty continents, like the lakes Ontario, Erie, Huron, and Superior, each flows into the other by some narrow communication, forming one Whole with the wide ocean of created Being.

It remains only that we here return our best thanks for their kind assistance in the accentuation of the following Catalogue of botanic words, to the Reverend WILLIAM PICKERING of *Mackworth* near *Derby*; to the Reverend Dr. GOODENOUGH of *Ealing*, in *Middlesex*; and to JOHN SNEYD, Esq; of *Belmont*, in *Staffordshire*. And for many valuable communications, to the Reverend T. MARTYN, Professor of Botany, at *Cambridge*; to Dr. BLAGDEN, Secretary to the Royal Society; to JON. DRYANDER, Esq; and many others of the learned and ingenious.



AN
ACCENTED CATALOGUE
OF THE
GENERIC AND TRIVIAL NAMES
OF
P L A N T S,
USED BY
L I - N N E U S,
WITH THE ADJECTIVES APPLY'D TO THEM,
AND OTHER
BOTANIC TERMS.

A D V E R T I S E M E N T.

IT may be proper to acquaint the unlearned reader, that the *e.* at the end of the Latin and Greek words is always pronounced, and not sunk as in the English Orthography, as in *Agave*, which is pronounced *A—ga—ve*; and *Acre*, *A—cre*. And that *ch.* is universally in these languages pronounced like *k.* by the English, who have not the hard *ch.* in their language; thus *Achillêa* is pronounced as if it were spelt *A—kil—le—a*, and *Chelone*, as if it were spelt *Ke—lo—ne*.

N.B. This accented Catalogue properly belongs to our Translation of the **SYSTEM** of **VEGETABLES**, where all the words here accented are to be found, but not being then ready for the Press is placed in these Volumes of the **FAMILIES** of **PLANTS**.

ACCENTED CATALOGUE, &c.

A.

Abelmóschus
 Ábies
 Abiétina
 Abortívus
 Abróma.
 Abrótanum
 Abrótanöídes
 Ábrus.
 Absínthium
 Ábfus
 Abútilon
 Acáciöídes
 Acadiénfis
 Acæna.
 Acálypha
 Acánga
 Acánthium
 Acánthöídes
 Acárna
 Ácer
 Ácerifólium
 Acetábulófa
 Acetábulum
 Acetófa
 Achilléa
 Achilléæ
 Acetófum
 Acetofélla
 Áchras
 Achyrántha

Achyránthes
 Ácicanthéra
 Aciculáris
 Ácida
 Acidíffima
 Acidóton
 Ácináricus
 Ácinifólia
 Ácinodéndron
 Ácinos
 Acmélla
 Acnída
 Aconítifólium
 Aconítum
 Ácorus
 Ácre
 Acróftichum
 Actæa
 Aculeáta
 Acumináta
 Acúta
 Acutángula
 Adanfónia
 Adélia
 Adenanthéra
 Adhadóta
 Adiantöídes
 Adiánthum
 Adnáta
 Adpréffa
 Adónis
 Adóxa

Addúcta
 Adulterína
 Adúncum
 Adfcenfiónis
 Ægagrópila
 Ægilops
 Ægíphila
 Æginétia
 Ægopódium
 Ægópricon
 Ægyptíaca
 Ægýptius
 Æquális
 Æquáta
 Æquinoctíalis
 Æruginófa
 Æfchynómene
 Æfculus
 Æftivális
 Æftívum
 Æftuans
 Æthenénfis
 Æthiópica
 Æthiöpis
 Æthúfa
 Átra
 Africánum
 Agállocha
 Agáricus
 Agáftachys
 Agáve
 Agératum

Agé-

Agéria	Alliária	Amaránthus
Agglutináta	Alísma	Amarélla
Ágnus cástus	Allamánda	Amæna
Agrárium	Alliónia	Amarýllis
Agréstis	Allium	Ambiguum
Agrimonöides	Allýsson	Ambrósia
Agrimónia	Allophýlus	Ambrósina
Agrophýllum	Álneus	Ambrosíaca
Agrostéma	Álnifólia	Ambrósiöides
Agróftis	Álnus	Amboinénfis
Agynéia	Alópecúrus	Amelánochier
Ahövai	Alópecúrum	Améllus
Aíra	Áloe	Amethýstéa
Aitónia	Aloöides	Americána
Aizóon	Álöifólia	Amethýstina
Aizöides	Alopecúroiðea	Amelloides
Ajácis	Alpína	Améntum
Ájuga	Alpínia	Ámmi
Ájugifólia	Alpéstris	Ammöides
Alatérnus	Alpígena	Amómum
Alaternöides	Alsáticum	Ammódytes
Alátus	Alfinástrum	Amphíbium
Álbens	Alsíne	Amórpha
Álbicans	Álsínefólia	Amýgdalus
Álbidum	Álsínöides	Ampelóprafum
Álbifrónðis	Álstónia	Ammánna
Albúca	Álstroeméria	Ámyris
Álbus	Altáica	Amfónia
Álcea	Altágénse	Amplexifólia
Alceöides	Áltérnifólius	Ampléxicaúlis
Alchemílla	Althæa	Ampléxicárpus
Alchemillöides	Althæifólia	Ampulláceum
Aldrovánda	Athæöides	Anastomósans
Alétris	Altíffima	Anceolátus
Aléppica	Áltum	Ánceps
Alexandrínium	Álýpum	Anábafis
Alexitéria	Álýflum	Anacárdium
Álgæ	Amábilis	Anacýclus
Álhági	Amágdalöides	Anagállis
Álkekengi	Amâra	Anágyris
Áliéna	Amalágo	Anastática
Alienáta	Amaranthöides	Anánas

Anándria	Anthýllöides	Aquifólium
Anblátum	Anserína	Aquática
Anchúfa	Anteuphórbium	Aquátilis
Ancístrum	Anthéra	Aquifólia
Andráchne	Athílmia	Aquilegifólium
Andrógynus	Anthrífus	Aquilegiöides
Androiæmum	Ánthora	Aquilína
Androfáceus	Antíchorus	Árabis
Andrómeda	Antidéfma	Árachis
Andropógon	Antirrhinum	Arália
Andróface	Antiquórum	Aráchniodéum
Androsæmöides	Ántidyfentérica	Arábicus
Androsácea	Anthelmínticum	Arachnites
Andrógynum	Anthéricum	Arachnófa
Andrýala	Antípoda	Árbutus
Anemóne	Antirrhína	Árbor trístis
Anéthum	Anthemöides	Arbórea
Angélica	Anthrácinus	Arboréscens
Angiospérnia	Antipyretica	Árbutifolia
Angúria	Apáctis	Arbúscula
Ánglica	Aparíne	Árctium
Angulófa	Apétala	Árctopus
Angústifolia	Áphaca	Árctótis
Angústus	Aphtófus	Árcticum
Anguláta	Ápios	Archangélica
Anguicída	Aphanes	Arctostáphylos
Anguína	Aphanöides	Arduína
Anísum	Aphyllánthes	Aréca
Anisátum	Aphýllum	Arenária
Annótinum	Aphytéia	Arethúfa
Annuláris	Ápium	Arétia
Annóna	Aplifolia	Arenárius
Anómala	Aplúda	Arenósum
Ánthemis	Apócynum	Areíra
Anthéricum	Aponogéton	Argemóne
Anthistíria	Apocárpum	Argophýllum
Anthóceros	Appendiculátum	Argúfia
Antholýza	Appenínum	Árguens
Anthospérmum	Ápula	Argénteá
Anthoxáanthum	Aquártia	Argentátus
Anthýllis	Aquilégia	Arietínium
Antárcticus	Aquilícia	Aristátum

Arifólium	Áspera	Áucuba
Ária	Ásphódelöides	Aucupária
Arísarum	Áspálatha	Augústus
Aristélla	Áspéríma	Aulbétia
Aristída	Ásperáta	Aurántium
Aristolóchia	Ásplénioídes	Aurícula
Aritúrus	Ásper	Auriculária
Armeníaca	Ásperúgo	Aurícomus
Arméria	Áspérula	Auriculáta
Armorária	Ásphódelus	Áureum
Arifólium	Ásplénium	Auríta
Armilláris	Ássafoétida	Áuriscálpium
Arménia	Ássürgens	Aurántinum
Árnica	Áster	Aurantíaco-áter
Aromaticus	Ástrágalus	Austríacum
Arrhíza	Ásteríscus	Austrális
Artédia	Ástrántia	Autumnále
Artemísia	Ástrónium	Avéna
Artocárpus	Ástracánica	Avérrhöa
Articuláris	Áströides	Avicénna
Articulátum	Ásthonática	Avellána
Artemisifólia	Atamásko	Avenácea
Árum	Athanásíæ	Aviculáre
Arúndo	Athamánta	Ávium
Arundinácea	Athanásia	Áxyris
Arúncus	Atomária	Axilláris
Arvénsis	Atráctylis	Ayénia
Ásarum	Atrágene	Azadiráchta
Ásarifólia	Atrapháxis	Azárolus
Áscalónicum	Atrátum	Azédarach
Áscalópicum	Atráctylöides	Azálea
Áscéndens	Átriplex	Azónicum
Áscensíonis	Atríplicis	
Ásclepiadéa	Átropa	B.
Ásclepias	Atríplicifólius	Babylónica
Ásclepium	Átropurpúrea	Báccans
Áscyrum	Átroálbus	Bácccharis
Áscyron	Átrofanguínea	Báccifer
Ásiática	Atróvírens	Baccáta
Áspálathus	Atrorúbens	Baccilláris
Áspáragus	Átrum	Báccifórmis
Áspáragöides	Attenuáta	Badúca

Bæckéa	Béhen	Bíjuga
Bæomyces	Belladónna	Bilabiáta
Bæóthryon	Béllidiástrum	Bilímbi
Balángas	Béllidifólium	Bilobáta
Baldénfis	Bellidióides	Bíloba
Baleárica	Béllis	Bipinnáta
Ballóta	Béllium	Biplumáta
Balsaméa	Bellónia	Biscutélla
Balsámica	Bénghas	Bíferráta
Balsamina	Benghalénfis	Biférrula
Balsamífera	Benjamína	Bisnagárica
Balsamíta	Bénzöe	Bíspinósa
Bálsamum	Bénzöin	Bistórta
Balvóicum	Bérberis	Bituminósa
Baltimóra	Bergíana	Bithiniánis
Bámbos	Bermudínium	Bivalváta
Banistéria	Bérgia	Biválvis
Bánkfia	Bernárdia	Bíxa
Bárba	Besleria	Bládhia
Bárba Jóvis	Béta	Blaéria
Barbárea	Bétle	Blakéa
Barbáta	Betónica	Blásia
Barbadénse	Bétula	Blattária
Bárbarum	Betúlinum	Blattárióides
Barbígera	Bétulus	Blécknum
Barléria	Bíarticulátum	Blítum
Barnadésia	Bícapfuláris	Bobártia
Barómez	Bicórnis	Boccónia
Barringtónia	Bícolor	Boerhaávia
Bártfia	Bídens	Boética
Bartrámia	Bidéntis	Bohéa
Baruénfis	Bidentáta	Bohémicum
Bafélla	Biénnis	Bolétus
Basílicum	Bifária	Bómbax
Báffia	Biflórum	Bonariénfis
Báffi	Bifólia	Bóna nox
Batátas	Bifoliáta	Bonaróta
Bátis	Bífrons	Bónæ spéi
Bauhínia	Bigémina	Bónduc
Bavárica	Bignónia	Bononiénse
Beccabúnga	Biglandulósa	Bonducélla
Befária	Biglúmis	Bóntia
Begónia	Bihái	Bónus Henrícus

Bo-

Borbónia	Búbon	Cadúca
Boreále	Bubulína	Cæsia
Boráffus	Búcephalóphorus	Cæfalpínia
Borágo	Buccinális	Cáffra
Boséa	Búceras	Caffrórum
Bosvalléa	Buchnéra	Cainíto
Botryápium	Bucída	Caíricus
Botryóides	Buddléia	Caían
Bótrys	Bufónia	Cakíle
Bovísta	Bulbífera	Cálaba
Bouréria	Bulbocástanum	Calábrica
Brabéium	Bulbocódium	Calabúra
Brachiátum	Bulbófus	Calamagnóftis
Bráctea	Bulláta	Calamus
Bracteáta	Bumálda	Calamifórme
Bracteoláta	Búnias	Calamitósum
Brafilíense	Búnium	Caláthinus
Brafficáta	Búnus	Calamíntha
Bráffica	Buphthálmum	Calcaráta
Bráthis	Bupléurum	Calceolária
Brévifólium	Bupléurifólium	Calcéolus
Bréynia	Burmánia	Calcitrápa
Breyniána	Búrfa Pastóris	Cálea
Británnica	Burféra	Caléndula
Bríza	Burferiána	Caléndulácea
Brizóides	Búrsifólium	Calicáris
Bromélia	Bútomus	Cállá
Bromóides	Büttnéria	Callicárpa
Brómus	Butyrácea	Callicórnia
Bronchiális	Buxbaúmia	Callocócca
Brosséa	Búxifólius	Calligonum
Browállia	Búxus	Callífia
Brownéa	Byffóides	Callítriche
Brúnia	Býffus	Callófa
Brunnéa	Byzantínus	Calomélanus
Bruniades		Calodéndrum
Brunsfélfia		Calophýllum
Bryántha	Caapéba	Cáltha
Bryóides	Cacália	Calycánthus
Bryónia	Cacálióides	Calýcina
Bryonifolia	Cacáo	Calýculus
Bryópterus	Cáchris	Calyculátum
Bryum	Cáctus	Calýptra

C.

Cámara	Capillus Veneris	Caróxylon
Cambógia	Capitátum	Carpática
Cámbricum	Capitella	Carpésium
Caméllia	Capitellátum	Carpínus
Camerária	Cápparis	Carpóbolus
Camocládia	Caprária	Cárthamus
Cámmarum	Capreoláta	Carthúsianórum
Campánula	Cáprifólium	Carthaginénsis
Campanulátum	Caprínus	Cartilagíneus
Campechiánium	Cápficum	Cáruí
Campechiénse	Cápsula	Cárum
Campéstris	Capfuláris	Cáryocárpus
Cámphora	Capúra	Caryócar
Camphoróhma	Cáput Gállí	Caryophýllus
Camphórina	Cáput Medúsæ	Caryophylléa
Camphorátus	Caracálla	Caryóta
Camtschátca	Caragána	Casábonæ
Camtschatcénse	Carámbola	Cascarilla
Canadénfis	Carándas	Cascoláris
Canaliculátum	Cardámine	Cáspica
Canariénfis	Cardámines	Cassábicus
Canarína	Cardamómum	Cássia
Canárium	Cardíaca	Cássine
Cancellátus	Cardínalis	Cássinóides
Canciromális	Cárdiospérmum	Cassýta
Cándel	Carduélis	Cástá
Candelábrum	Cárduifólius	Castánea
Cándicaps	Carduncéllus	Castáneifólium
Candidíssimum	Cardúnculus	Castilléia
Canélla	Cárduus	Casuarína
Canéscens	Cárex	Catalpa
Canína	Cárica	Catanánche
Cánna	Caribæa	Catappa
Cannábina	Caricósum	Catária
Cánnabis	Carína	Cátechu
Cánnæfólia	Carinthíaca	Catesbæa
Cantábrica	Carlína	Cathólicum
Cantaréllus	Carniólica	Catúrus
Cánuş	Carnósa	Cáucalis
Capénfis	Carolínea	Cáuda félis
Caperátus	Caroliniána	Caudátum
Capilláris	Carolínium	Cauléscens
Capilláta	Caróta	Cauliflora

Cay-

Cayanénse	Cerínthe	Chelidónia
Cecrópia	Cerinthöides	Chelidónium
Cédrela	Cérnua	Chelóne
Cédrus	Cérnuum	Chelónöides
Céiba	Ceropégia	Chenólea
Celástrus	Cérris	Chenópoda
Celébica	Cerværia	Chenopódium
Celófia	Cerviána	Cherléri
Célfia	Cervicária	Cherléria
Céltis	Cervínium	Chína
Céltica	Cervína	Chinénsis
Cémбра	Céstrum	Chiococca
Cénchrus	Céterach	Chionánthus
Cenífia	Chærophýllum	Chirónia
Centaurea	Chærophýllus	Chirónium
Centaureúm	Chálcas	Chlóra
Centaurium	Chalcedónicum	Chloróxylon
Centauröides	Chalepénfis	Chondrilla
Centifolia	Chalybéiformis	Chondrillöides
Centrifugus	Chamæbúxus	Chordorriza
Centunculus	Chamæcístus	Christíanus
Cépa	Chamæcrísta	Chufánum
Cepácea	Chámæ Cyperíffus	Chryfántha
Cepæa	Chamædrys	Chryfánthemum
Cepéafolia	Chamæjáfme	Chryfánthuim
Cephalánthus	Chamæléa	Chryfobálanus
Cephalótes	Chamæa Méspilus	Chryfócoma
Cephalótus	Chamæa Móly	Chryfógonum
Ceranöides	Chamæpithys	Chryfophýllum
Cérafus	Chamærops	Chryfoplénium
Cerástium	Chamæfýce	Chryfytrix
Cératocárpus	Chamæpeúce	Chytracúlia
Cératocárpon	Chamíra	Cicca
Cératöides	Chamæmórus	Cícer
Cératónia	Chamomílla	Cícera
Cératophýlla	Champáca	Cichorácea
Ceratophyllöides	Chára	Cichórium
Cératophýllum	Charácias	Cícila
Cérbera	Charántia	Cicónium
Cércis	Cháte	Cicúta
Cercále	Cheiránthöides	Cicutárium
Cerefólium	Cheiránthus	Ciliáris
Cerífera	Cheíri	Ciliáta

Cimicífuga	Clinopódiöides	Colúrna
Cimicínium	Clinopódium	Colútea
Cinchóna	Clitória	Colutöides
Cinerária	Clúfia	Cómarum
Cinérea	Clufiána	Cóma aúrea
Cínna	Clútia	Comáta
Cinnamoméa	Clýmenum	Combrítum
Cinnamómum	Clypeátum	Cométes
Circæa	Clypéola	Comínia
Circæöides	Cneórum	Commúnis
Cirrhiflórum	Cnícus	Commelína
Cirrhófa	Cóbbe	Commerfónia
Circinális	Coccífera	Comocládia
Circinátum	Coccínea	Comófa
Circumfléxa	Coccóloba	Compáctum
Circumcíffus	Cochenilífera	Cómpar
Ciffámpelos	Cochleária	Complanátum
Cíffus	Cochleátum	Compléta
Ciftiflóra	Cócos	Complicátum
Ciftöides	Cóculus	Compófitum
Cíffus	Códia	Compréffus
Citharéxylum	Códon	Cóncolor
Citrifólium	Cœli Rófa	Concatenáta
Citrúllus	Cœrúlea	Condensáta
Cítrus	Cœrulum	Confértum
Clandeftína	Cœfia	Conferva
Cláthrus	Cœfius	Confervöides
Cláva Hérculis	Cœfpitícium	Conglomeráta
Clavária	Cœfpitófa	Cónica
Clavénnæ	Cofféa	Conífera
Claviculáta	Cóix	Coníum
Claytónia	Cólchicum	Conjugátum
Claytoniána	Coldénia	Cónnarus
Clématis	Collína	Connátum
Clematítis	Collinfónia	Conocárpa
Cléome	Collocáfia	Conocárpus
Cleónia	Colónum	Conoidéa
Clerodéndrum	Colocýnthis	Conöides
Cléthra	Coloráta	Conómon
Cleyéra	Cólpoon	Conopféa
Clibádium	Colubrína	Confólida
Cliffórtia	Columbária	Contamináta
Cliffortiána	Columnéa	Contórtum

Con-

Contórtuplicátus	Coronáta	Crispátum
Contrajérva	Coronílla	Crísta
Contrárius	Corónopifólia	Crísta Castrénfis
Convallária	Corónopus	Crísta Galli
Convolutum	Corrigióla	Cristáta
Convólulus	Cortúsa	Críthmifólium
Conýza	Cortusóides	Críthmum
Conýzoides	Corúscans	Crocáta
Copaífera	Córylifólia	Crocátus
Copállinum	Córylifólium	CróCIFólium
Coprófma	Córylus	Crócus
Cópticus	Córymbium	Crocodylium
CoracánuS	Corymbósa	Crossopétalum
Corállinus	Córynocárpus	Crotalária
Corállina	Córypha	Cróton
Corállodéndron	Cóstus	Crucianélla
Corállóides	Cóta	Cruciáta
Corállorhíza	Cótinus	Crucígera
Córcorifólium	Cotinifólium	CrúduM
Córchorus	Cótula	Cruéntus
Córculum	Cótulóides	Crupína
Córdia	Cotylédon	CruStácea
Cordátum	Cotylédonis	Crux Andréæ
Cordígera	Cóurbáril	Crux Córvi
Cordifólia	Cracca	Crux Gállí
Coreópsis	Crámbe	Cruzíta
Coriándrifólium	Craniolária	Cryptárum
Coriándrum	Crassifólium	Cryptogámia
Coriária	Cráßula	CryStállinum
Corifólia	Cratægus	Cubéba
Coríndum	Cratæva	Cubénse
Coriophora	Crenáta	Cúbica
Córis	Crenuláta	Cubitális
Corispérmum	Crépis	Cucúbalus
Corniculátus	Crépitans	Cuculária
Cornicina	Crepóides	Cucullária
Cornucópiæ	Crescéntia	Cucullátum
Cornucópoídes	Créßa	Cucumérina
Córnus	Crética	Cúcumis
Cornútia	Crínátum	Cucurbitána
Corólla	Crínifólium	Cucúrbita
Coromandeliána	Crínium	Cujéta
Coronária	Críspa	Culilában

Cúltrifólium	Cynoglóssum	Decagýnia
Cúlmus	Cynométra	Decándria
Cumínium	Cynomórium	Decándrum
Cúneifólia	Cynophallóphora	Decanguláre
Cuníla	Cýnops	Decapétalus
Cunónia	Cynósbati	Decaspermum
Cupánia	Cynosúroïdes	Declinátum
Cuphéa	Cynosúrus	Decumánium
Cupræa	Cyparissias	Decumária
Cupréssina	Cypérus	Decumbens
Cupuláris	Cypéroïdes	Decussátum
Cupréssus	Cypérinum	Deflorátus
Curassávia	Cypripédium	Dehíscens
Curatella	Cyrilla	Delicátulum
Cúrcas	Cýtinus	Deliciósus
Curcúma	Cytisóides	Delíma
Curtipéndulum	Cýtifus	Delphínifólia
Curúru		Delphínium
Curviflóra	D.	Demérsum
Cuscúta		Demíssa
Cuspidátum	Daböécia	Dendroïdes
Cuslónia	Dactylífera	Dens Cánis
Cyanélla	Dactylóïdes	Dénsum
Cyanóides	Dáctylon	Dentária
Cýanus	Dáctylis	Dentáta
Cyathóides	Dáis	Denticuláta
Cýcadis	Dalbérgia	Denticulátum
Cýcas	Daléa	Denudátus
Cýclamen	Dalechámpia	Depauperáta
Cydónia	Dalecárlica	Deprésa
Cylíndricus	Dalibárda	Descéndens
Cýma	Dalmáticum	Deústus
Cymbalária	Damascéna	Deútzia
Cymbalárisfólia	Damafónium	Diadélphia
Cymbária	Dandelíon	Diálíum
Cymbárium	Dánica	Diándra
Cymínium	Dáphne	Diándria
Cymósa	Daphnóides	Dianthéra
Cynánchica	Dasyphýllum	Diánthus
Cynánchum	Datísca	Diapénfia
Cynápium	Datúra	Dícera
Cýnara	Daucóides	Dichótoma
Cynaróides	Dáucus	Dictamnóides
Cynocrámbe	Débilis	Dictámnus

Dídyma	Dodecándra	E.
Didynámia	Dodecándria	
Diervílla	Dodecátheon	ébenúm
Diffórmis	Dodonæa	ébenus
Diffúsus	Dolabráta	Ebenéum
Digitális	Dólichos	ébulus
Digitáta	Doméstica	Ecastaphýllum
Digýnia	Domingénsis	Ecbólium
Dígynus	Domínica	Echináta
Dilatáta	Dónax	Echinóphora
Dilátris	Doræna	Echínops
Dillénia	Dória	Echínus
Dimidiátum	Dorónicum	Echióides
Diminútus	Dortmánná	échium
Dioécia	Doristénia	Eclípta
Dioíca	Dorýcnium	Edúlis
Diódia	Drába	Effúsum
Dionæa	Dracæna	Eglantéria
Dioscoréa	Dráco	Ehrháta
Diósma	Dracocéphalum	Ehrétia
Dióspyros	Dracónis	Ekebérgia
Dipétalum	Dracóntium	Elæágnus
Diphýlla	Dracúnculus	Elæís
Dípfacus	Drakéna	Elæocárpus
Diptéria	Drófera	Elæodéndron
Dírca	Droseróides	Elástica
Dísa	Drúpa	élate
Dísáandra	Dryándra	Elatérium
Discóidéa	Dryas	Elátine
Díscolor	Dryméia	Elátior
Díscors	Drypís	Elátus
Díscréta	Dryópteris	élegans
Dísermas	Dúbium	Elegía
Díspérma	Dudáim	Elemífere
Dífléctum	Dulcamára	Eléngi
Dísfímilis	Dúlcis	Elephántopus
Dístachyon	Dumófus	élephas
Dístans	Dumetórum	Ellíptica
Dístichum	Duránta	Ellísia
Dístillatória	Durántifólia	Elódis
Diúrnum	Dúrio	Elongáta
Dívaricátum	Duriúscula	Elutéria
Díversifólia	Dúrus	élymus
Dódecas	Duróia	Emarginátum

Émblica	Erióphorum	Excélsior
Émbolus	Erióphorus	Excísa
Embóthrium	Eriópila	Excoecária
Émerus	Eríthalis	Excoriáta
Eméticus	Erisíthales	Excorticáta
Émpetrifólia	Erófus	Exígua
Émpetrum	Erúca	Exímium
Endívia	Erucágo	Exótica
Enneándria	Erúcæfórmis	Expánsum
Énneaphýlla	Erucástrum	Excálpus
Énñifólia	Erúcóides	Exsúcca
Énñifórmis	Eruláceum	Extinctórum
Éntada	Ervíla	Extinctum
Epácris	Érvum	
Éphedra	Eryngium	F.
Éphémerum	Erysimum	
Epidéndrum	Erysiphe	Fába
Epigéios	Erythrína	Fabágo
Epigéa	Erythrónium	Fabáriu
Epiglóttis	Erythróxylon	Fágara
Epilóbium	Escallónia	Fagíneus
Epimédium	Esculéntus	Fágifólia
Epipáctis	Ésculus	Fagónia
Epiphýllum	Ésula	Fagopýrum
Epipogium	Ethúlia	Fagraea
Epithymum	Eucléa	Fágus
Equáta	Eugénia	Fahlunénsis
Equisétifolia	Euódia	Falcária
Equisétum	Eupatória	Falcáta
Eragróstis	Eupatorióides	Fálkia
Eránthemum	Eupatórium	Fálx
Erécta	Euphórbia	Fárfara
Érica	Euphorbídés	Farfétia
Ericæfólia	Euphrásia	Farnefiána
Éricetórum	Europæus	Farináceus
Éricóides	Eustachiána	Farinósus
Erigáta	Éurya	Fascículus
Érígeron	Evólulácea	Fasciculáris
Érinácea	Evólvulus	Fasciculáta
Érinóides	Euónymus	Fastigiátus
Érínus	Exacóides	Fastuósa
Ériocáulon	Éxacum	Fátua
Eriocéphala	Exaltáta	Fávus
Eriocéphalus	Excélsa	Felína

Fémina	Fléxifólium	Frígida
Fenestrális	Fléxicáulis	Friséa
Feniculáceus	Fléxilis	Fritillária
Ferrária	Flexuósa	Fron dósa
Férrea	Florentína	Frustránea
Ferrugínea	Floridánum	Frutés cens
Férula	Flóridus	Frúticans
Ferulácea	Flosácris	Fruticés cens
Ferulágo	Flós Áeris	Fruticósa
Festúca	Flós Aquæ	Fruticulósa
Fevilléa	Flosculósum	Fúchsia
Ficária	Flós Cúculi	Fucifórmis
Ficoídes	Flós Jóvis	Fúcus
Ficifólia	Flúitans	Fugacíssima
Fícoidéum	Fluviális	Fúgax
Fícus	Fluviátile	Fuiréna
Fícus indica	Fœniculum	Fúlgidum
Filágo	Fœnum Græcum	Fullónum
Filamentósa	Fœtida	Fúlva
Fília	Fœtidíssima	Fumána
Fílices	Fóliáta	Fumária
Filícinum	Folliculáta	Fumárioides
Filiéornis	Folliculus	Fúngus
Filiculifólia	Foliósa	Furcátus
Filifólia	Fomentárius	Furcillátus
Filifórmis	Fontánum	Furfuráceus
Filipéndula	Fontinális	Fúrvum
Fílix Máscula	Forficátum	Fúsanus
Fílix Fœmina	Formósa	Fulcés cens
Fílum	Formosíssima	Fuscoáter
Fimbriátus	Forškóhlea	Fúscus.
Fimetárius	Fórskohles	
Fissifólia	Forstéra	G.
Fístula	Fortunátum	
Fistulósa	Fothergílla	Gáhnia
Flabellátum	Fragária	Galáctia
Flabéllulátum	Fragárioides	Galaçtítis
Fladnizénfis	Fragíferum	Galáçtra
Flagellária	Frágilis	Galánga
Flagéllifórmis	Frángula	Galánthus
Flámmea	Frankénia	Gálax
Flámmula	Fratérnus	Galáxia
Fláva	Fraxíneus	Gálbanum
Flávium	Fráxinus	Gále

Galéga	Gibbósum	Gnáphalöides
Galénia	Gibraltárica	Gnémon
Galeóbdolon	Gigantéus	Gnétum
Galeópfis	Gigartínus	Gnídia
Gálium	Gileadénfis	Gnídium
Galopina	Gingídium	Gomózia
Galégiformis	Ginóra	Gomphréna
Galériculáta	Gíngko	Gonocárpus
Galiöides	Gisékia	Gordónia
Gállica	Githágo	Gortéria
Gangética	Glabéllum	Gossýpinum
Gangítis	Gláber	Gossýpium
Garcínia	Glabrária	Gouánia
Gardénia	Glabráta	Gramíneus
Gargánica	Glaciális	Gráminifolia
Garidélla	Gladiáta	Gramóntia
Gaura	Gladíolus	Granadénfis
Gaulthéria	Glándula	Granátum
Geifolia	Glandulósum	Grandarúca
Gelatinósa	Glastifólius	Grandiflórum
Gemonénse	Glaúca	Grándis
Gemovénse	Glaúcifólius	Gránium Paradísi
Genevénfis	Glaúcium	Gratíssimum
Geniculáta	Glaucöides	Gratiola
Geniculiflórum	Glaúcophýllum	Granulátus
Génipa	Gláux	Granuláris
Genísta	Glecóma	Gravéolens
Genístifólium	Gledítsia	Greenlándia
Genístiöides	Glínus	Græcízans
Gentiána	Glóbba	Græcum
Gentiánöides	Globíferus	Gréwia
Geoffróya	Globósum	Grías
Geöides	Globulífera	Griélum
Gerániöides	Globulária	Grisléa
Geránium	Globuláris	Gronóvia
Gerárdia	Glochides	Grossulária
Gerascánthus	Glomeráta	Grossárium
Gerbéra	Gloriósa	Grossulárisifolia
Germánica	Glúta	Grossuláriöides
Geropógon	Glutinósa	Gruínum
Gesnéria	Glycine	Grýllus
Gesneriána	Glycyphýllus	Guaréa
Gethýllis	Glycyrrhíza	Guaiácum
Géum	Gmelíne	Guazúma
Gíbba	Gnaphálium	Guettárda

Gui-

Guilandína	Hédera	Hernándia
Guineénfis	Hederácea	Herniária
Gummíferum	Hederácum	Héſperis
Gundélia	Héderaefólia	Hoteróclīta
Gunnéra	Hedycárya	Heterómalum
Gustávia	Hedyótis	Heuchéra
Gúttá	Hedýpnois	Hexagónum
Guttátum	Hedýfarum	Hexagýnia
Gymnorhíza	Heistéria	Hexándra
Gymnospérnia	Heléniöides	Hexándria
Gynándria	Helénium	Hexástichon
Gypsóphila	Heleonástes	Híans
Gypsóphilöides	Heliánthemifólium	Hibíſcus
Gyránda	Heliánthemum	Hierácifólium
	Heliánthus	Hieráciöides
H.	Helicónia	Hierácium
	Heliſtéres	Hieroclúntica
Habenária	Heliocárpus	Híerofólymethánum
Hæmáanthus	Helióphila	Híllia
Hæmatódes	Heliolscópa	Híppia
Hæmatóxylum	Heliotrópium	Hippocratéa
Halepénſe	Hélix	Hippocrépis
Haléſia	Helónias	Híppo-cáſtanum
Halicácaba	Helléborus	Hippómane
Halicácabum	Helvélla	Híppo-máratherum
Hálimifólium	Helvéticum	Hippóphæe
Halimöides	Hélvolum	Hippúris
Hálimus	Hémerocállis	Hiráea
Halléri	Hemímeris	Hircánicum
Halléria	Hemionítis	Hírculus
Halodéndron	Hemiſphærica	Hirſúta
Halóragis	Hepática	Hirſutíſſima
Hamamélis	Heptagýnia	Hírta
Hamátum	Heptándria	Hirtélla
Haméllia	Heptaphýlla	Hirtéllum
Hamóſa	Heracléum	Hiſpánica
Hármala	Heracleóticum	Híſpida
Hartógia	Herbácea	Hiſpídula
Háſpan	Hérba Vént	Hólcus
Haſſelquíſtia	Hercínium	Holocrícea
Haſtáta	Hercúlea	Holoſchoénus
Háſtifólium	Hermánia	Holoſérica
Havanénſis	Hermaphrodítum	Holoſerícea
Hebenſtréitia	Hérmás	Hopéa

Hórdeifórmis	Hypéricóides	ímpersoliáta
Hormínium	Hypéricum	Imperiális
Hórnum	Hypnóides	Impúbes
Horizontális	Hýpnum	Impudícus
Hórrida	Hypocárpia	Inapérta
Horténfis	Hypochæris	Incána
Hóspita	Hýpochondríaca	Incanénfis
Hottentóttus	Hypocístis	Incarnáta
Hottónia	Hypogæa	Incísus
Houftónia	Hypoglóssum	Incómpta
Houtuýnia	Hypophýllocárpodén-	ínconspícuous
Hovénia	dron	Incubácea
Hudfónia	Hypophýllum	Incurváta
Hugónia	Hypópthys	índica
Húmifúsa	Hypóxilon	Indigófera
Húmíle	Hypóxis	Induráta
Húmulus	Hyflópisfólia	índum
Húra	Hyflópióides	Inéream
Hyacinthóides	Hyflópus	Inérmis
Hýacínthus		Infésta
Hyáline	I.	Infláta
Hybáanthus		Infléxa
Hybérnum	Ibéris	Infortunátum
Hýbrida	Icágo	Infundíbulifórmis
Hydnóra	Ignátia	ínga
Hýdnum	Icosándra	Inodóra
Hydrangéa	Icosándria	Inocárpus
Hydrástis	Idæus	Inophýllum
Hydrócharis	Ignanéus	ínquinans
Hydrocótyle	Igniárius	Infánum
Hydrólea	Ignávus	Infectórius
Hydrópipe	Ignéscens	Insípida
Hydróphylax	ílex	Institíta
Hydrophýllum	Illécebrum	Insuláre
Hyemális	íllicifólius	íntegrifólia
Hygrométricum	Illícium	íntermédia
Hymenæa	Illíricum	ínterrupta
Hyobánche	Ílvénse	íntertéxta
Hyoscýamus	Imbérbé	Intestínális
Hyóseris	Imbricáta	Intricátus
Hypécoum	Impátiens	íntfia
Hyperbóreum	Imperáti	Intybácea
Hypéricifólia	Imperatória	íntybus

ínula
 Inundátum
 Involucrâta
 Invólucrum
 Ipecacuânhæ
 Ipomœa
 íria
 írio
 íris
 Irésine
 ífatis
 Ischæmum
 Iseténfis
 Islándica
 Isnárdia
 Isôetes
 Isopýrum
 Isóra
 Itálicum
 ítea
 íva
 Ivæfólíum
 íxia
 íxina
 Ixóra

J.

Jábotapíta
 Jácea
 Jacobæa
 Jacobæus
 Jacquínia
 Jalápa
 Jamaicénfis
 Jambolífëra
 Jámbos
 Jánipha
 Japónica
 Jafíone
 Jásmínium
 Játropha
 Javánica
 Jólithus

Jonquílla
 Jonthlâspi
 Jubátum
 Judáica
 Júglans
 Jujúba
 Julácea
 Juláceum
 Juliána
 Júncea
 Juncifólíum
 Juncus
 Jungermánia
 Júngia
 Junipérinus
 Juniperóides
 Juniperus
 Jussíëua
 Jussëóides
 Justícia

K.

Kæmpféria
 Káki
 Káli
 Kálmia
 Kalmiánum
 Kálmii
 Kampscática
 Kánki
 Karátas
 Keínia
 Kiggelária
 Kleinhóvia
 Knaútia
 Knóxia
 Koenígia
 Kolpínia
 Kraméria
 Kúhnia
 Kyllínga

L.

Labiális
 Láblab
 Labrúfca
 Labúrnifólia
 Labúrnum
 Labyrínthifórmis
 Laccíferum
 Lácera
 Lachenália
 Lachnæa
 Laciniátus
 Laciniófa
 Lácryma Jóbi
 Lacrymósum
 Lácteum
 Lactífluus
 Lactúca
 Lacunófa
 Lacúftris
 Ládanum
 Ladaníferus
 Læflingíata
 Læstringiána
 Læta
 Lætia
 Lævipes
 Lævigátus
 Lævis
 Lagenária
 Lagerftróemia
 Lagóecia
 Lagopóides
 Lagópus
 Lagúrus
 Lámina
 Lámium
 Lanáta
 Lanceolária
 Lanceoláta
 Lánceum
 Lániflóra
 Lantána
 Lanúginófa
 Lápathifólíum

Láp-

Láppa	Leonítis	Limeum
Lappáceum	Leóntice	Limodórum
Láppula	Leóntodon	Limónia
Lappulácea	Leóntopétalóides	Limónium
Lápsana	Leóntopétalum	Limosélla
Lárix	Leóntopódium	Linária
Laferpítium	Leonúrus	Lináriifólius
Latebrósum	Lepídium	Lincónia
Laterális	Lépidocárpodéndron	Lindéra
Láteriflóra	Leporína	Lindérnia
Lathráea	Leprófus	Lineáris
Láthyris	Leptaúrea	Lineáta
Láthyroídes	Leptocárpa	Língua
Láthyrus	Leptophýlla	Lingulátum
Látifólium	Leptóstachys	Línifólia
Latíffima	Lerchéa	Liunæa
Latrónum	Leucadéndrum	Linóides
Lauréntia	Leucántha	Linophýllum
Láurocéráfus	Leucánthemum	Linofýris
Lauréola	Leucanthéra	Línium
Laugéria	Leucoglóchin	Línium-stellátum
Láurus	Leucógraphus	Línza
Lavatéra	Leucóium	Lipária
Lavándula	Leucómelos	Líppia
Lavénia	Leucóxylon	Líppii
Lawfónia	Levisárus	Liquidámbar
Láxa	Levísticum	Líriodéndron
Laxáta	Leyféra	Lisiáanthus
Lébbek	Libanótis	Lithospérma
Lechéa	Líchen	Lithospérmum
Lécythis	Lichénóides	Littorális
Lédifólius	Licuála	Littorélla
Lédum	Lignófus	Littóreus
Léea	Lígta	Lívidus
Legúmen	Liguláris	Lobátum
Lémna	Ligulátus	Lobélia
Lendígerum	Ligústrinum	Lobelióides
Léns	Ligústrum	Locústa
Lénta	Liliágo	Loeflingia
Lentágo	Liliástrum	Loeselia
Lenticuláta	Lílio Hyacínthus	Loetélii
Lentífera	Lílium	Loefstringiana
Lentífcus	Liménfis	Loliácea

Lólium
Lonchítis
Lónchophýllum
Lónga
Lóngicáuda
Lóngicórnū
Lóngiflórus
Lóngitólia
Lóngisíliqua
Loní.éra
Lonicéróides
Lóofa
Lophánthus
Loránthus
Lóreum
Loríceum
Lotóides
Lótus
Lúcens
Lucídior
Lúcidum
Ludwígia
Lúffa
Lúgens
Lumbricátus
Lunária
Lunáris
Lupináfter
Lupinóides
Lupínus
Lúpulus
Lupúlina
Lufitánica
Lútea
Lutéola
Lúteoálbum
Lutetiána
Luxúrians
Lúzulæ
Lychnidéa
Lýchnis
Lychnítis
Lýcia
Lycióides

Lýcium
Lycóctonum
Lycopérdon
Lycopérficum
Lycopodióides
Lycopódium
Lýcopus
Lycópfis
Lygéum
Lygístum
Lyráta
Lyfimáchia
Lýthrum

M.

Mába
Mácrocarpus
Macrocnémum
Mácrorhízon
Máderaspatána
Máderaspaténfis
Madríténfis
Magellánicum
Mágicum
Mágna
Magnólia
Mahágoni
Máhaleb
Mahérnia
Maiális
Máior
Majorána
Malabárica
Malabáthrica
Malaccénfis
Málachra
Málacodéndron
Malacóides
Malamíris
Malavífcus
Malocócca
Málope
Malpíghia

Málus
Málva
Mamméa
Mammilláris
Mancinélla
Mandrágora
Manéttia
Mánghas
Mangífera
Mángle
Mangoftána
Mangoftánuſ
Mánihot
Manifúris
Mánticum
Manúlea
Máppa
Maránta
Marántæ
Marántina
Marchántia
Marcgrávia
Margaritácea
Margaritária
Marginátus
Mariána
Mariánuſ
Marilándica
Marífcus
Marítima
Mármelos
Marrúbium
Marfiléa
Mártagon
Martinicénfis
Martýnia
Máru
Marubiáſtrum
Márum
Más
Máſcula
Maſſiliénſe
Maſſónia
Maſſíchina

Matrélla	Menáis	Minuártia
Matricária	Menispérmum	Minúta
Matthiôla	Méntha	Minutíffima
Máura	Menthôidés	Mirábilis
Mauritânica	Mentzélia	Míser
Maurítia	Menyánthes	Mitchélia
Maurocénia	Meöides	Mitélla
Máx	Mercuriális	Mítis
Máxima	Meriána	Mitíffima
Máys	Merianélla	Míttra
Méadia	Merídionális	Mitréola
Medéola	Méfembryánthemum	Míxta
Medicágo	Mesénterifórmis	Mnematéia
Médium	Méspilus	Mniarum
Meláeuca	Messerschmídia	Mníum
Melampódium	Mésua	Moehringia
Melampýrum	Métel	Mokúfin
Melanchólicus	Metópium	Moldávica
Melánium	Méum	Móllis
Melanóphleus	Mexicána	Mollíffima
Melanthéra	Mezéreum	Mollúgo
Melánthium	Mícans	Molúcca
Melástoma	Michélia	Móly
Meleágris	Micheliánuş	Moluccánuş
Mélia	Micránthus	Móly chámæ
Meliánthus	Microcarpa	Moluccélla
Mélica	Mícrocos	Mómbin
Melicocca	Mícrophýlla	Momórdica
Mélilot	Mícropus	Monachórum
Melíffa	Miliáceus	Monadélphia
Meliténse	Militáris	Monándria
Melittifólia	Mílium	Monánthemum
Melíttis	Milleflórum	Monánthos
Meliífera	Millefoliátum	Monárda
Méllitifólia	Millefólium	Monélli
Mélo	Milléria	Monénse
Melocástus	Millingtónia	Monetária
Melóchia	Mimófa	Monilíferum
Melódinus	Mimófoídes	Monilifórmis
Melóngena	Mímulus	Monniéria
Melópepo	Mimúfops	Monocárpos
Melóthria	Miniátus	Monocéphala
Membránacea	Mínimus	Monócera
Memécylon	Mínor	Monocóccum

		Mýxa	N.
Monoëcia	Múrex	Náias	
Monogámia	Muricata	Náma	
Monógyná	Murínium	Nána	
Monogýnia	Murónium	Nándina	
Monóica	Murráya	Nápéa	
Monopétala	Murucúia	Nápeca	
Monophýlla	Músa	Nápus	
Monórchis	Muscári	Narcissiflóra	
Monospérmum	Muscárius	Narcíffus	
Monótropa	Muscípula	Nárdus	
Monfónia	Muscivorum	Nastúrtium	
Monspeliaca	Muscóides	Nafúta	
Monspeliénfis	Muscófa	Nátans	
Monspessulánum	Mussánda	Nátrix	
Móntia	Mutábilis	Naucléa	
Montinia	Mutátus	Nebrodénsis	
Moræa	Mutéllina	Neceffária	
Morgána	Múticus	Nectárium	
Morína	Mutiláta	Neglécta	
Morínda	Mútilum	Negúndo	
Morínga	Mutíffa	Nelúmbo	
Mório	Myágróides	Nemorális	
Morifónia	Myágrum	Nemolápathum	
Mórfus ránæ	Mycóni	Nemórea	
Mórus	Mygínda	Nemorófa	
Mofchatéllina	Myódes	Nemorénfis	
Mofchátum	Myofótis	Nepéntes	
Mofchéutos	Myofotóides	Népeta	
Mucéda	Myofúrus	Népetaefólia	
Múcor	Myrica	Nepetélla	
Mucófa	Myriophýllum	Nephélium	
Mucronátus	Myríffica	Nereifólia	
Mülléra	Mýrobálanus	Nérium	
Mullúgo	Myrófma	Nervifólia	
Multicáulis	Myróxylon	Neúrada	
Multífida	Mýrrhifólius	Níctitans	
Multiflórum	Mýrrine	Nicotiána	
Múltifiliquófa	Myrrínites	Nídus	
Münchhaúfia	Myrtillóides	Nídus Ávis	
Múngo	Myrtóides	Nigélla	
Múngos	Myrtíllus	Nigelláftum	
Muníta	Mýrtus	Nigréfcans	
Muntingia	Mýftax		
Murális	Mýurus		

Nigréscens	Nyctánthes	ólea
Nígricans	Nymphæa	Oleánder
Nigrína	Nymphæifolia	Oleóides
Nigríta	Nymphóides	Olerácea
Nígrum		Ollária
Níl	O.	Olitória
Nilóticus		Oliváceus
Nínfi	Obliquum	Olusátrum
Nípa	Obcordáta	Olympicum
Nirúri	Obolária	Olýra
Nissolia	Obscúra	Omphaléa
Nissoliána	Obtusifolia	Omphalódes
Nissoliánum	Obvalláta	Omphalóides
Nítidum	Occidentális	Onítes
Nivális	öchna	Onobrychióides
Nívens	Océanica	Onobrychis
Nóbla	Ochráceus	Onocléa
Nóbilis	öchroleuca	Onónis
Noctiflora	öchrus	Onopórdum
Nocturnum	Ocreátum	Onóma
Nodiflora	Octándra	Operculáta
Nodófa	Octándria	Opérculum
Nolána	öctopétala	Ophioglóffóides
Nóli tangere	öctoválvis	óphioglóffum
Nón scriptus	óculus Cati	Ophiorrhíza
Normális	óculus Christi	Ophíra
Norvégica	Ocymoidéa	óphrys
Nóftoc	Ocymóides	Opobálsamum
Nóvæ Angliæ	ócymum	Opópanax
Novi-Bélgi	Odontálgica	Oppósita
Novo-Boracénfis	Odontites	Oppósitifolia
Nucíferum	Odóra	ópulus
Núcleus	Odoráta	Opúntia
Núda	Odoratíssima	Opúntioides
Núdicaúlis	Oedéra	orbica
Núdiflora	Oenánthe	Orbiculáris
Núdifólium	Oenóplia	Orbiculátum
Núga	Oenothéra	Orchidéa
Nummulária	Oenothéræ	örchióides
Nummulárifólium	Officinále	örchis
Nummulárius	Officinárum	Orellána
Nútans	ólax	óreoselinum
Nux vómica	ólbia	Orientále
Nycteléa	Oldenlándia	Origanifólium

Oríganiöídes
 Origanum
 Oríxa
 Ornátus
 Orníthis
 Ornithógalum
 Orníthopus
 Orníthopódiöídes
 órnus
 Orobánche
 órobus
 Oróntium
 Ortégia
 Orúbica
 órvala
 Orýza
 Orýzöídes
 Osbéckia
 Osbéckii
 Osmítes
 Osmúnda
 Ofsífragum
 ósteospérnum
 Ostrúthium
 óstrya
 Olýris
 Othéra
 Othónna
 Otítes
 Ovátus
 Oviéda
 Ovífera
 Ovína
 Ovípara
 óxalis
 Oxiacántha
 Oxiacánthöídes
 Oxýcedrus
 Oxycóccos

P.

Pádus
 Pæderóta
 Pædéria

Pæonia
 Palæstína
 Paleácea
 Paliúrus
 Palláfia
 Pállens
 Palléscens
 Pállida
 Palmáta
 Pálmæ
 Paludófus
 Palúftris
 Pánaces
 Pánax
 Pancrátium
 Pandánu
 Pandurátus
 Paníceá
 Panícula
 Paniculátus
 Pánicum
 Pánnoni
 Pannónica
 Papáver
 Papáya
 Papílionácea
 Papilláris
 Pappósa
 Papyrífera
 Papýrus
 Paradífi
 Paradisiáca
 Paradóxa
 Parálias
 Pardaliánches
 Pareíra
 Paréllus
 Parietária
 Paris
 Parkinsónia
 Parnáfia
 Parnáfifólia
 Paronýchia
 Párta

Parsónfia
 Parthénium
 Paschális
 Páspalum
 Passerína
 Passeríno
 Passiflóra
 Pastináca
 Patagónula
 Patavína
 Pátens
 Patiéntia
 Pátula
 Páuciflórum
 Pavétta
 Pávia
 Pavónia
 Pavonína
 Paullínia
 Pécten Vénérís
 Peçtináta
 Péçtis
 Pedálium
 Pedicállus
 Pediculária
 Pediculáris
 Pedunculátum
 Pedúnculus
 Péganum
 Pelecínus
 Pelegína
 Pelliferiánum
 Pellúcidum
 Peloponénse
 Peltária
 Peltátum
 Pémphís
 Penæa
 Péndula
 Pendulína
 Pennáta
 Pensylvánia
 Péntacárpos
 Péntagólttis

Pén-

Péntagónia	Pes cápæ	Phryma
Péntagýnia	Pes Tígridis	Phrygia
Péntándra	Pétalum	Phú
Péntándria	Petasítes	Phýlica
Péntanguláris	Petéfia	Phýlicifólia
Péntápetes	Petíolus	Phyllánthus
Péntaphýlla	Petivéria	Phylláchne
Péntaphýllos	Petréa	Phýllis
Péntaphylléa	Petræum	Phyllýrea
Pénte pétalóides	Petroselinum	Phymatódes
Penthórum	Peucedanifólium	Phýsalis
Penitémon	Peucedanóides	Phýsalóides
Péplis	Peucedanum	Physódes
Peplóides	Pezíza	Phyteuma
Péplus	Pháca	Phytolácca
Pépo	Phæníceæ	Pícæ
Péragua	Phænicóides	Píceæ
Perdícium	Phænopýrum	Pícris
Peregrína	Phæum	Picroídes
Perénne	Phálaris	Pícta
Peréskia	Phállus	Pígria
Perfoliáta	Pharnacéóides	Pilósa
Perforátum	Pharnacéum	Pilosélla
Pergulária	Phárus	Piloséllóides
Periáanthium	Pháscum	Pilulária
Pericárpium	Phaséolus	Pilulífera
Periclymenum	Phegopteris	Piménta
Perílla	Phellándrium	Pimpinélla
Períllóides	Phéllus	Pimpinéllifólium
Períplocæ	Phelypæa	Pimpinéllóides
Periplocifólia	Philadélphus	Pinástra
Perlátus	Philadélphicus	Pínea
Pernambucána	Philipénse	Pinéti
Perpénsa	Phillítides	Pinguicula
Perpusíllus	Phlegmária	Píguin
Pérsea	Phléum	Píguis
Pérfica	Phlómidis	Pínifólia
Perficária	Phlómis	Pianatífida
Pérficifólius	Phlomóides	Pinnátum
Perfolúta	Phlóx	Pínus
Personáta	Phórmium	Píper
Pertúsum	Phosphoréa	Piperélla
Peruíferum	Phœnix	Piperíta
Peruviána	Phragmítis	Piscidia

Pisiferum
Pisiformis
Pisonia
Pistacia
Pistia
Pistillaris
Pistillum
Pistolochia
Pisum
Pitajaya
Pithyusa
Planifolium
Planisiliqua
Plantagineum
Plantaginis
Plantago
Plenum
Platanoides
Platanus
Platicarpos
Platineuros
Platyphylla
Plectronia
Plena
Plicatus
Plinia
Plukenetia
Plumarius
Plumbago
Plumaria
Plumosa
Plumula
Pluvialis
Pneumonanthus
Poa
Podagraria
Podophyllum
Poeticus
Poinciana
Polemonium
Polianthus
Polium
Pollueria

Pollia
Polonicum
Polyadelphia
Polyandria
Polyanthemus
Polyanthemos
Polyanthos
Polycarpon
Polyclonos
Polycnemon
Polyceratium
Polyfolius
Polygala
Polygaloides
Polygamia
Polygonatum
Polygonoides
Polygonum
Polygynia
Polymnia
Polymorpha
Polypodioides
Polypodium
Polyphyllum
Polypremum
Polyrhiza
Polystachion
Polytrichoides
Polytrichum
Pomeridianus
Pommerëulla
Pomifera
Pomiforme
Pompodium
Pontana
Pontedera
Pontica
Populifolius
Populneus
Populus
Porana
Porella

Porophyllum
Porosa
Porrifolium
Porrigena
Potrum
Portensis
Portlandia
Portula
Portulaca
Portulacaria
Portulacastrum
Portulacoides
Posoposa
Potamogeton
Potatorum
Potentilla
Poterium
Pothos
Præalter
Præcox
Prælongum
Præmorsus
Prasium
Pratensis
Precatorius
Premna
Prenanthes
Primula
Primulifolia
Prinos
Prionitis
Prismatica
Proboscideum
Procera
Prockia
Procumbens
Prolificum
Prophetarum
Propontica
Prostrata
Proserpinaca
Prosopis

Protæa	Púlchrum	Quércus
Protium	Pulegioides	Quéria
Provincialis	Pulégium	Quinquánguláre
Pruinósa	Pulicáris	Quínqueflóra
Prunástri	Pulicária	Quínquefólius
Prunélla	Púlla	Quínquevúlnera
Prúnus	Pulláta	Quisquális
Pruténicum	Pulmonária	
Pseudo-Acácia	Pulfatilla	R.
Pseudo-Acmélla	Púmila	
Pseudo-Acorus	Pumílea	Racémiflórâ
Pseudo-Cápsicum	Punctáta	Racémus
Pseudo-Camæpithys	Punctórius	Racemósa
Pseudo-China	Púngens	Ráchis
Pseudo-Cypérus	Púnica	Radiále
Pseudo-Cytisus	Puníceá	Rádians
Pseudo-Dictámnus	Púnificólia	Radiáta
Pseudo-Narcíssus	Púrgans	Radícans
Pseudo-Píthys	Purpuráscens	Radióla
Pseudo-Plátanus	Purpúrea	Ragusína
Pseudo-Psídium	Púrpurocærúleum	Rajánia
Psídium	Púrum	Ramentácea
Pittacórum	Pusillum	Ramiflórâ
Pforálea	Pymmaea	Ramósiór
Pforaloides	Pyracantha	Ramosíffimus
Psycódes	Pyramidális	Ramósus
Psychótria	Pyramidáta	Rándia
Psyllium	Pyreniáica	Rangiferínus
Psyllóphora	Pýrethrum	Ranúnculus
Ptármica	Pyrifórme	Rápa
Ptélea	Pýrola	Raphanístrum
Pteráanthus	Pýrus	Ráphanus
Pteris	Pyxidária	Rapúnculóides
Pterocéphala		Rapúnculus
Pteroides		Ranvólfia
Pteróta		Reaumúria
Pterocárpus	Quádranguláris	Receptáculum
Pterónia	Quádridentáta	Reclináta
Púbera	Quadrífida	Récta
Pubescens	Quádrifólium	Recúrvus
Pubígera	Quámoclit	Recurvátum
Pugiónifórme	Quássia	Recutíta
Pulchélla	Quércifólius	Redivíva
Pulchérrema	Quércinus	Refléxum

* h

Re-

Regális	Rhómbifólia	Rotúndifólia
Regérminans	Rhomböidéa	Royéna
Regínæ	Rhús	Royéni
Régium	Ríbes	Róyoc
Reguláris	Ríccia	Rúbens
Religiósum	Richárdia	Rúbia
Remóta	Ricinélla	Rubiginósa
Reneálmia	Rícino-cárpos	Rubílla
Renifórme	Rícinus	Rúbra
Repánda	Ricótia	Rúbus
Répens	Rígens	Rudbéckia
Réptans	Rígida	Ruderále
Reptátrix	Rigídus	Ruélia
Reséda	Rigídula	Rúfus
Resédifólia	Rindéra	Rugósum
Resinósa	Ríngens	Rúmex
Réstio	Rinocerótis	Rúmphia
Resupináta	Ripácicum	Runcináta
Reticulátum	Rítro	Rupéstris
Retórtum	Rivále	Rupícola
Retrofléxa	Rivína	Rúppia
Retrofráctus	Rivuláris	Rúscifólia
Retúsum	Robertianum	Rúscus
Rétzia	Robínia	Russélia
Revolútum	Róbur	Rústica
Rhabárbarum	Roccólla	Rúta
Rhacóma	Roélla	Rutábulum
Rhæticum	Románia	Rútæfólius
Rhagadiolóides	Rondelétia	Rúta Murária
Rhagadiolus	Rorídula	Ruthénicum
Rhámnus	Rósa	Ruyschiána
Rhamnóides	Rosácea	
Rhapóntica	Rósa Sinénfis	S.
Rhapónticum	Rósea	
Rheédia	Rosmarínifólia	Sabaúdum
Rhéum	Rosmarínus	Sabdaríffa
Rhéxia	Rostéllum	Sabína
Rhinánthus	Rostrátum	Sábra
Rhizóphora	Rótala	Sabulósa
Rhizóphorum	Rótang	Saccátus
Rhodíola	Rotáta	Sacchárinum
Rhododéndron	Rothmánnia	Sáccharum
Rhóëas	Rottbólla	Sagína
Rhombéa	Rotúnda	Saginóides

Sagittális	Sarcocómphalus	Schrebéra
Sagittária	Sarcóides	Schwalbéa
Salácia	Sarmentósa	Schwénkia
Salicária	Sarméntum	Scílla
Sálicifólium	Sarniénsis	Scilláris
Salicórnia	Saróthra	Sciltóides
Saligna	Sarracéna	Scírpus
Sálix	Sarsaparílla	Scitamíneæ
Salmática	Sasángua	Sciúróides
Sálfa	Sástafras	Scleránthus
Salsílla	Satívum	Sclerocárpus
Sálfola	Sátius	Scolopéndröides
Sálfolóides	Saturéia	Scolopéndrium
Sálfula	Satýrium	Scólymus
Sálvadora	Saurúrus	Scopária
Sálvia	Sauvagésia	Scopáricus
Salvifólia	Saxátillis	Scopárius
Sámara	Saxífraga	Scopólia
Sámbac	Saxífragum	Scordióides
Sambúcifólia	Saxífragus	Scórdium
Sambúcina	Scabiósa	Scordónia
Sambúcus	Scábra	Scordótis
Sámolus	Scabrélla	Scorodóprafum
Sámyda	Scabríta	Scorpióides
Sáncetum	Scævola	Scórpius
Sanguinále	Scammónia	Scorpiúrus
Sanguinária	Scándens	Scorzonéra
Sanguináreus	Scándix	Scríptum
Sanguíneum	Scarióla	Scrobiculátum
Sanguinoléntum	Scéptrum	Scrophulária
Sanguisórba	Scéptrum-Caroliánum	Scúrrula
Sanícula	Scéptrum-Gustaviánum	Scutátus
Santálinus	Scheffieldia	Scutellária
Sántalum	Scherárdia	Scutelláta
Santolína	Scheuchzéria	Sebesténa
Santónica	Schinóides	Sebíferum
Sapiéntum	Schínus	Secále
Sapíndus	Schmidélia	Secálinus
Saponária	Schobéri	Secamóne
Sapóta	Schoenánthus	Secúnda
Sáppan	Schoenóides	Secúridáca
Saráca	Schoenóprafum	Sedifólia
Saracénica	Schóenus	Sedifórme
Sarcocólla	Scholáris	Sedóides

Sédum	Serpýllum	Símplicifólia
Segetális	Serraria	Símplicíffima
Ségetum	Serráta	Sinápis
Segregáta	Serrátaloídes	Sinénsis
Sequínum	Serrátifólia	Sinuátum
Seguíeria	Serrátula	Siphonánthus
Selágo	Serrulátum	Siphilitica
Selínium	Sesaméus	Sipyléum
Semecárpus	Sésamöides	Siriboa
Sémialátum	Sésamum	Síricus
Sémicompositum	Sésban	Sírium
Sémiflosculare	Séseli	Sísarum
Sémipinnáta	Sesquipedális	Síson
Sémispínósa	Sesquitértia	Sisyrínchium
Sémitrilobáta	Sésiliflóra	Sisymbrium
Sémperflórens	Sésilis	Síum
Sémpervírens	Sesúvium	Skímmia
Sempervívum	Setáceus	Slaréa
Senécio	Setifólius	Sloanéa
Sénega	Séxanguláris	Smilácina
Sénegal	Sherardiána	Smilax
Sénna	Sibbáldia	Smyrnæum
Sensíbilis	Sibírica	Smyrnium
Sensitíva	Sibthórpia	Sóda
Senticósa	Sícula	Sodoméum
Sepiárium	Sicyöides	Sója
Sépium	Sícyos	Solanácea
Séptas	Sída	Solándra
Septémloba	Sidöides	Solánifólia
Septéntrionále	Siderítis	Solánium
Sépticus	Sideróxylon	Soldanélla
Sequínum	Sigesbéckia	Solidáginiöides
Serápias	Siláus	Solidágo
Seriána	Siléne	Soloniénse
Séridis	Síler	Solstitiális
Seríceá	Siliculósa	Sonchifólia
Seríola	Síliqua	Sónchus
Seríphium	Siliquástrum	Sonnerátia
Serótina	Siliquósa	Sophéra
Sérpens	Sílphium	Sóphia
Serpentária	Silvéstris	Sóphora
Serpentínium	Simarúba	Sórbifólium
Serpícula	Símile	Sórbus
Serpýllifólia	Símplex	Sórghum

Sorórius	Spiræa	Stipóides
Spadícea	Spiræifólia	Stípula
Spadíceus	Spláchnum	Stipuláceum
Spargánium	Spóndias	Stoébe
Sparganóphora	Spontáneum	Stoéchas
Sparrmáia	Sprangeránium	Stolonífera
Spárteum	Sprengeríanium	Stramónium
Spártium	Spumósum	Stratiótes
Spatháceus	Spúria	Stratumática
Spathélia	Squálens	Strépens
Spathuláta	Squálidus	Striátum
Spatuláta	Squamária	Strícta
Speciósá	Squarrósum	Strictíffimum
Speciosíffimum	Squarrófus	Strigófus
Spectábilis	Stáchys	Strobífera
Spéculum	Stáchydis	Strobilíferum
Spélta	Stæchas	Strobílina
Spéluncæ	Stæchadifólia	Stróbilus
Spérgula	Stæhelína	Stróbus
Spermacóce	Stámina	Strumánium
Spermóphorus	Stamíneum	Strúmpfia
Sphæránthus	Stáns	Struthíola
Sphærica	Stapélia	Struthiónis
Sphærocéphalus	Staphyléa	Struthiópterus
Sphærospérmus	Staphiságria	Strúthium
Sphágnum	Státice	Strýchnos
Sphondýlium	Stélis	Stylóidéum
Spíca	Stellária	Stýgium
Spícæ fórmis	Stelláris	Styracíflua
Spícant	Stellátum	Stýracifólium
Spícavénti	Stelléra	Stýrax
Spicáta	Stéllulifólium	Suavéolens
Spiciflórus	Stemódia	Súbacáulis
Spicígera	Stercúlia	Súber
Spigélia	Stérilis	Súberécta
Spilánthus	Stéris	Súberifólia
Spína Chrísti	Stewártia	Suberófa
Spinácia	Stilágo	Súbhirsútum
Spinárum	Stílbe	Sublobátus
Spinéscens	Stillíngia	Submérsum
Spinifex	Stímulus	Súbsquamófus
Spinifórme	Stípa	Súbterránea
Spinófa	Stipiformis	Súbtomentófus
Spinosíffima		

Subulária	Tamaríndifolia	Terebínthináceum
Subulátus	Tamaríndus	Terebínthus
Subvillósa	Tamarísci	Téretifolia
Succedáneum	Tamaríscifolia	Terminália
Succísa	Támarix	Ternatéa
Succuléntum	Támnifolia	Ternstrómia
Suffocátum	Támus	Terrácina
Súffruticósum	Tanacétifolium	Terréstris
Sulcata	Tanacétum	Térfa
Supérba	Tanárius	Testiculátum
Supérflua	Tápia	Tetándra
Supína	Taráxaci	Tetándrum
Supranúlium	Taráxacifolia	Tetrácera
Suratténsis	Taráxacum	Tétradynámia
Suriána	Tarchonánthus	Tétragónia
Súrinaménsis	Tárdifolius	Tétragónum
Surreiánuş	Targiónia	Tétragonóloba
Susánnæ	Tartáricus	Tétragónothéca
Susiána	Tartonária	Tétragýnia
Suspénsum	Tatúla	Tétrahit
Suspícata	Taurína	Tétralix
Sycomórus	Taxifolius	Tetrándria
Sylváticus	Táxus	Tetráptera
Sylvéstris	Tazétta	Tétraphýlla
Symphónia	Técta	Tétraqueetra
Symphoricárpus	Téctona	Tétraspérmum
Symphytum	Tectórum	Teúcrium
Symplocos	Telephióides	Thália
Syngenéfiá	Teléphium	Thaliána
Syriaca	Temuléntum	Thaliétróides
Syrínga	Tenacíssima	Thalíctrum
Swértia	Tenagéia	Thápsi
Swieténia	Ténax	Thápsia
	Téndo	Thapsóides
	Tenéllus	Thápsus
	Téner	Théa
	Ténerrimus	Thécefórmis
	Ténue	Theézans
	Ténuiflórum	Thelígonum
	Ténuifolia	Thelypteris
	Tenúior	Theobróna
	Tenuíssima	Theophrástá
	Tentaculáta	Thermális

T.

Tabácum
 Tabérnæmontána
 Tabuláre
 Tácca
 Tæda
 Tagéra
 Tagétes

Thé-

Théſium	Torulóſa	Tricuneátum
Thevétia	Tóttá	Tricúſpidátus
Thláſpi	Tournefórtia	Trídax
Thomáa	Tournefortiána	Tridentáta
Tbóra	Tournefórtii	Trientális
Thouínia	Toxicária	Trífida
Thryállis	Toxicodéndron	Triflórus
Túia	Toxífera	Trifólium
Thunbérgia	Tózzia	Trifoliáta
Thurífera	Trachélium	Trifúrca
Thuringiána	Tradefcántia	Trifurcáta
Thýmbra	Tragacántha	Triglóchin
Thymeléa	Trágia	Trigonélla
Thýmifólia	Tragódes	Trigýnia
Thymóides	Tragóides	Trigynus
Thýmus	Tragopógon	Trillium
Thyóides	Tragoríganum	Trilíx
Thýrſiflóra	Trágus	Triloba
Thýrſóides	Tranquebacénſis	Trilobáta
Tiarélla	Transylvánica	Trilocularis
Tíglium	Trapéſifórme	Triméſtris
Tília	Trápa	Trinervia
Tiliáceus	Tremélla	Trioécia
Tiliæfólia	Trémula	Trionum
Tillæa	Tréwia	Triópteris
Tillándſia	Triacánthos	Triornithóphorum
Tiactória	Triándra	Trióſteum
Tingitána	Triándria	Tripartíta
Tínus	Trianguláre	Tripétala
Tirucállí	Triánthema	Tripetalóides
Tithýmalóides	Tribulóides	Triphýllos
Tobira	Tríbulus	Triphýllum
Toluífera	Tríceps	Triplinervium
Tomentális	Trichília	Tripláris
Toméntum	Trichilióides	Tripólium
Tómex	Trichódes	Triſfacum
Topiária	Trichómanes	Tripteris
Tóra	Trichomanóides	Tríqueter
Tordýlium	Trichophýlla	Tríquetra
Torénia	Trichofánthes	Triſpicáta
Tormentilla	Trichospérma	Trifúlca
Torminális	Trichoftéma	Triftáchyos
Tornáta	Tricóecon	Tríſtis
Tortuóſa	Trícólor	Tríta

Triternáta
 Tríticum
 Triumfetta
 Triunciális
 Triviális
 Trixágo
 Tróglodytárum
 Tróllius
 Tropæolum
 Tróphis
 Truncátulum
 Truncátum
 Tfiampáca
 Túber
 Tuberária
 Tuberósa
 Túbiflorus
 Tubulósa
 Tulbágia
 Túlipa
 Túna
 Túpa
 Turbináta
 Túrbith
 Túrgidum
 Turpéthum
 Turræa
 Turnéra
 Turrita
 Turritis
 Tuffilágo
 Typhalæa
 Týpha
 Týphinum
 Týthinum

U.

Ucránia
 Ucránica
 úlex
 Uliginósa
 Ulmária
 úlmifolia

úlmus
 úlva
 Umbellátum
 úmbilicális
 úmbraculífera
 Umbrósa
 úna Críspa
 Uncátus
 Unciális
 Uncinátus
 Undáta
 Unduláta
 únedo
 Unguiculátus
 únguis
 únguis Cati
 Unguláta
 únicapsuláris
 únidentáta
 úniflóra
 únilabiátum
 únilaterále
 Unióla
 únifiliquósa
 Unítum
 Unóna
 únxia
 Uragóga
 Uralénfis
 úrbicum
 Uréna
 úrens
 Urinária
 Urnigerum
 Ursínium
 Urtica
 Urticæ
 Urticæfólia
 Usitatíffimum
 úsnea
 Usneóides
 Ustilláta
 Ustulátus
 Utriculária

Utriculáta
 Utrículus
 Úvária
 Uvárius
 úva úrfi
 Uvedália
 Uvifera
 Uviformis
 Uvulária

V.

Vaccária
 Vaccínium
 Vága
 Vagabúnda
 Vágans
 Vagináta
 Váhlia
 Valántia
 Valdéria
 Valentína
 Valeriána
 Vallésia
 Valléa
 Valeránda
 Vallifnéria
 Válvula
 Vandéllia
 Vanílla
 Varicófus
 Varietátum
 Variolófum
 Várius
 Varrónia
 Vascária
 Vasculófum
 Váteria
 Vática
 Végeta
 Velézia
 Vella
 Velútinum
 Venátum

Vé-

Vénctum	Virécta	Wachendórffia
Venósum	Virens	Walgáricus
Ventófus	Virgátum	Walthéria
Verátrum	Virgaúrea	Wedélia
Verbáscifólium	Virginiana	Weigéla
Verbáscum	Virgínica	Weinmánnia
Verbéna	Virgínicum	Willíchia
Verbenáca	Viridéscens	Wintéra
Verbenácea	Vírideflóra	Witfena
Verbesína	Víridipurpúrea	Wulfénia
Véris	Víridis	Wurmbéa
Vermiculátum	Virídulum	
Vérna	Virófa	X.
Vernális	Viscária	
Vérnix	Víscidum	Xánthium
Verónica	Vísciflóra	Xanthocárpus
Verrucófa	Víscófa	Xeránthemum
Versícolor	Víscum	Ximénia
Verticilláris	Vífnágo	Xiphium
Verticilláta	Vífnéa	Xiphophyllóides
Verticíllus	Vítálba	Xylophýlla
Vérum	Vitaliana	Xylópia
Verútum	Vitecélla	Xylósteum
Vésca	Vitellína	Xýris
Vesicária	Vítex	
Vesiculófus	Viticulósum	Y.
Vespertiliónis	Vitifólium	
Vespertínium	Vitigínea	Yervamóra
Vestíta	Vítis	Yúcca
Vexíllam	Vítis Idæa	
Vexillátus	Vittáta	Z.
Vibúrnum	Víva	
Vícia	Vivípara	Zacíntha
Victoriális	Vólkaméria	Zámia
Villófa	Volúbilis	Zannichéllia
Viminális	Vólucris	Zanónia
Vimínea	Vulgáris	Zanthóxylum
Vínca	Vulpína	Zéa
Vincetóxicum	Vulvária	Zeocríthon
Víola		Zerúmbet
Violácea	W.	Zeugítes
Viórna		Zeylánica

Zibethínus
Zíngiber
Zínnia
Zizánia
Zizániöídes

Zizíphora
Zízypus
Zoegéa
Zonále
Zoftéra

Zuzýgium
Zýgis
Zygophýllum

ACCOUNT OF THE WORK.

ALL the real knowledge, which we possess, depends on METHOD; by which we distinguish the similar from the dissimilar. The greater number of natural distinctions this method comprehends, the clearer becomes our idea of the things. The more numerous the objects, which employ our attention, the more difficult it becomes to form such a method; and the more necessary. The great Creator has in no part of his works presented a greater variety of objects to the human mind than in the vegetable kingdom; which covers the whole globe, which we inhabit; whence, if a distinct method is ever necessary, it is necessary here; if we hope to gain a distinct knowledge of vegetables. Thus Cespalinus, “ unless plants
“ be reduced into orders, and like the squadrons of an
“ army distributed into their proper classes, every
“ thing must be in a state of fluctuation.”

2. To him therefore Vegetables are known, who (1) can join the similar to the similar, and can separate the dissimilar from the dissimilar.

3. The

3. The BOTANIST is he, who can affix similar names (2) to similar vegetables, and different names to different ones, so as to be intelligible to every one.

4. The NAMES (3) of Plants are *generic*, and (where there are any species), *specific*. These should be certain and well founded, not vague, evasive, or variously applicable. Before they can be such, it is necessary, that they should have been affix'd to certain, not to vague genera. (2.6.) for if this foundation be unsteady, the names also, and in consequence the doctrine of the Botanist crumbles into ruin. (3)

5. The SPECIES are as numerous as the different and constant forms of vegetables, which exist upon this globe; which forms according to instinctive laws of generation produce others, similar to themselves, but in greater numbers. Hence there are as many Species, as there are different forms or structures of Plants now existing; excepting such less-different *Varieties*, which situation or accident has occasion'd.

6. The GENERA are as numerous, as the common proximate attributes of the different species, (5), as they were created in the beginning; this is confirm'd by revelation, discovery, observation, hence

The Genera are all Natural.

For we must not join in the same genus the horse and the swine, tho' both species had been one-hoof'd, nor separate in different genera the goat, the reindeer, and the elk, tho' they differ in the form of their horns. We ought therefore by attentive and diligent observation to determine the limits of the genera, since they can not be determin'd a priori. This is the great work, the important labour, "*for should the Genera be confus'd, all would be confusion.*" Casalp.

7. That it has pleas'd Infinite Wisdom to distinguish the Genera of Plants by their FRUCTIFICATION was discover'd in the last age; and first indeed by CONRADUS GESNER, the ornament of his time; as appears from his posthumous epistles, and from the plates published by CAMERARIUS, altho' the first, who introduced this great discovery into use, was ANDREAS CASALPINUS; which would nevertheless have shortly expired in its cradle, unless it had been recalled into life by the care of ROBERT MORISON, and nourish'd by JOSEPH P. TOURNEFORT with pure systematic rules. This was at length confirm'd by all the great men, then existing, in the science.

8. This foundation being given (7), this point fix'd, immediately every one capable of such researches

ches join'd their labours to turn it into use, to build a system; all with the same inclination, and to the same purpose, but not all with equal success. Because the fundamental rule was known but to few, which if the builders did not observe, quickly fell to the ground with the first tempest the insubstantial edifice, however splendid; Boerhave (Instit. 31.) well observes, that *a TEACHER, as he explains discoveries, may proceed from generals to particulars; but an INVENTOR on the contrary must pass from particulars to generals.*"

For some assuming the different parts of Fructification as the principle of their system, and descending according to the laws of division from classes through orders even to species, broke and dilacerated the natural Genera (6), and did violence to nature by these hypothetical and arbitrary principles. For example, one from the *Fruit* denies that the Peach and Almond can be join'd in the same genus, another from the *regularity of the Petals* denies that Valerian and Valerionoides Kn.; another from their *number*, that Flax and Radiola Dill; another from their *sex* that the urtica androgyna, and dioica, &c. can be combined under the same genus: for, say they, if these can not be conjoin'd in the same class, much less in the same genus: not having observed, that themselves have contrived the classes, but that the Creator himself made

made the Genera. Hence arose so many false Genera! such controversy amongst authors! so many bad names! such confusion! Such indeed was the state of things, that as often as a new System-maker arose, the whole Botanic world was thrown into a panic. And for my part I know not, whether these System-builders produced more evil than good to the science; this is certain, if the unlearned be compared with the learned, they much surpass them in number, Physicians, Apothecaries, Gardiners lamented this misfortune, and with reason. I confess, their theory had been excellent, had it pleased the great Creator to have made all the fructifications of the same Genus of Plants equally similar amongst themselves; as are the individuals of the same species. As this is not so, we have no resource, since we are not the governors of Nature, nor can create plants according to our own conceptions, but to submit-ourselves to the laws of nature, and learn by diligent study to read the characters inscribed on plants. If every different mark of the fructification be adjudged sufficient for distinguishing the genus, why should we a moment hesitate to proclaim nearly as many genera as species? for we are scarcely acquainted with any two flowers so similar to each other, but that some difference of their parts may be discern'd; I also once endeavour'd from the flower alone to determine all the specific differences, but frequently with less success,

since

since there is an easier method. I wish it therefore to be acknowledged by all true Botanists, if they ever expect any certainty in the science, that *the Genera and Species must be all natural*; without which assumed principle there can be nothing excellent done in the science. F. B. 132, 157. Let us suppose that the GREAT FATHER created at the beginning but one species of each genus. Let us also suppose that these first species of plants (either in the beginning or in process of time) to have been fecundated by the species of other genera; it would then follow, that more species would arise, which would in the structure of the flower become in some measure like their mother, and in the structure of the herb like their father. See Amœnit. Academ. 6. p. 279.

9. Having assumed this postulatam (8) every one proceeded according to his own method; they distributed these genera into orders and classes; Cæsalpinus, Hermannus, Ray, Knaut, according to *the fruit*; Tournefort from the *figure of the Corol*; Rivinus from *the number and equality of the petals*; Magnol from *the calyx*, all these methods have been attended with no injury to the science; but on the contrary with great utility as one may thence discern how much this or that part of the fructification prevails in the different natural classes. It is of no consequence by what

what method, so you can arrive at the Genera with facility; that is to be prefer'd however, which leads you by the most certain path, and which is most universal; for I believe few are born with so tenacious a memory, as to retain the numerous Genera without System; Method therefore must lead the way; the Orders are subaltern Classes; and no one will deny, that it is easier to distinguish few things, than all. I do not deny, that natural Classes may not be given as well as natural Genera. I do not deny, that a natural method ought much to be prefer'd to ours, or those of other discoverers; but I laugh at all the natural methods hitherto cry'd up; and provoked in my own defence I venture to affirm, that not a single class before given, in any system, is natural; so long as those Genera, and those Characters, which at present exist, are arranged under it. It is easy to distribute the greatest part of the known genera into their natural classes, but so much the greater difficulty attends the arrangement of the rest. And I can not persuade myself that the present age will see a natural System, nor perhaps our latest posterity. Let us nevertheless study plants, and in the mean time content ourselves with artificial and succedaneous Classes. *Natural Classes* would delight us all, could any one investigate their characters, but to propose these without a character comprehending its own genera, and excluding all

* k others

others, would be to reject all method, and wilfully shut our eyes to the torch, which might light us. The antients in the time of the Bauhines closely adhered to the natural classes; but Character was yet defective, the parts of fructification not yet being well ascertained; even till *Tournefort* by the bright light of the fructification elucidated genera, otherwise obscure; for example, It was necessary that *Melanthus*, *Epimedium*, *Hypocoum*, *Fumaria*, *Impatiens*, *Utricularia*, &c. should agree in a natural order; but who from any part of the fructification shall produce a character combining, and yet distinguishing them? Compound Flowers comprehend *Corymbium* with a one-flower'd calyx; a species of *Erigeron* with four filaments; *Kubnia* with separate anthers; *Strumpfia* with berry'd fruit; who could ever detect a character distinguishing these, and no others?

10. These natural Genera assumed, (6, 7.) two things are required to preserve them pure, first that the true species, and no others, be reduced to their proper genera. Secondly that all the Genera be circumscribed by true limits or boundaries, which we term *generic characters*.

11. These *characters*, (10) as I turn over the authors, I find uncertain and unfix'd before *Tournefort*,

to him therefore we ought deservedly to ascribe the honor of this discovery of ascertaining the genera, indeed other Systematists of other Sects have given characters, but I can understand none of them, who preceded *Tournefort*, or who did not tread in his steps, as *Plumier*, *Petit*, *Boerhave*, *Vaillant*, *Dilleney*, *Ruppius*, *Pontedera*, *Buxbaumius*, *Michelius*, and a few others, of whom the greatest part, altho' they differ'd from the classes and orders, or method of *Tournefort*, yet follow'd him in the Genera; *Tournefort* assumed the *petals and the fruit*, as diagnostic marks of the genera, and no other parts; so did almost all his followers; but the moderns, oppress'd by the quantity of new and lately detected Genera, have supposed that these parts alone are insufficient for distinguishing all the Genera: and have thence believed themselves necessitated to have recourse to the habit and appearance of plants, as the leaves, situation of the flowers, stem, root, &c. that is to recede from the steady foundation of the fructification, and to relaps into the former barbarism; with what ill omen this is done, it would be easy to demonstrate, if this were the time and place for such a task; whatever may be the event, I acknowledge the parts described by *Tournefort* to be insufficient, if the petals alone or the fruit were to be used for this purpose. But I ask for what reason should these characters alone be used? does inspection shew this? or revelation?

lation? or any arguments either a priori, or posteriori? certainly none of these. I acknowledge no authority but inspection alone in Botany; are there not many more parts of the fructification? why should those only be acknowledged and no others? Did not the same Creator make the latter, as well as the former? are not all the parts equally necessary to the fructification? We have described of the CALYX 1 the *Involucre*. 2 the *Spathe*. 3 the *Perianth*. 4 the *Ament*. 5 the *Glume*. 6 the *Calyptre*. of the COROL 7 the *Tube* or *Claws*. 8 the *Border*. 9 the *Nectary*. of the STAMENS 10 the *Filaments*. 11 the *Anthems*. of the PISTIL 12 the *Germ*. 13 the *Style*. 14 the *Stigma*. of the PERICARP 15 the *Capsule*. 16 the *Silique*. 17 the *Legume*. 18 the *Nut*. 19 the *Drupe*. 20 the *Berry*. 21 the *Pome*. the SEED 22, 23, and its *crown*. the RECEPTACLE 24 of the *fructification*. 25 of the *flower*. 26 of the *fruit*. Thus are there more parts, more letters here, than in the alphabets of languages. These marks are to us as so many vegetable letters; which, if we can read, will teach us the characters (10) of plants: they are written by the hand of God; it should be our study to read them.

12. *Tournefort* did wonders with his characters, but since so many and such new genera have been since discovered; it should be our business to adhere indeed

to his principles, but to augment them with new discoveries, as the science increases.

13. *Figures* alone for determining the genera I do not recommend; before the use of letters was known to mankind, it was necessary to express every thing by picture, where it could not be done by word of mouth, but on the discovery of letters the more easy and certain way of communicating ideas by writing succeeded. So among Botanists before letters were discover'd (11) these figures afforded great assistance, but those once known, we had a shorter way; our letters are about twenty-six, (11) by means of which we may write our ideas.

a. From a figure alone who could ever argue with any certainty? but most easily from written words.

b. If I wish to bring into use, or quote in any work the characters of a Genus; I can not always easily paint the figure of it, nor etch or engrave it, or print it off, but can easily copy the description.

c. If in the same Genus, as happens in many, some of the parts should differ in respect to number or figure in some of the species or individuals, yet I am expected to note the situation and proportion of these parts; it
be-

becomes impossible to express these by a print, unless I should give a number of figures. Hence if there should be fifty species; I must exhibit as many prints, and who would be able to extract any certainty from such a variety? But in a description the parts are omitted, which differ; and the labour is much less to describe, those which agree, and much more easy to be understood.

14. We have therefore endeavour'd to express by words all the marks or distinctions as clearly, if not more so, than others have done by their expensive prints; the great *Boerhave* first mark'd out this path, but no one has yet endeavour'd to travel with Him the road he has laid open.

15. The generic characters (11) are obtain'd of three kinds, viz. The *factitious*, the *essential*, and the *natural*. F. B. 1786.

16. The *factitious* character (15) fixes one mark on a genus, by which it is distinguish'd from the rest, arranged under the same order, but not from others. This kind of character is of all the easiest to be understood, and is shewn in charts or synoptic tables, as by *Ray*, (in the former editions of his synopsis) by *Knautius*, and *Kramerus*. If indeed there never were any doubts

doubts about the class and order, and all the genera, which exist in nature, were discover'd, this would be easier than the others, but since they are not discover'd, nor can be, it becomes itself erroneous, and leads us into error, for when at any time a new genus is detected, those in its vicinity become wrong, and all the characters which should proceed from the same branch, where it must be introduced.

17. The *essential* character furnishes a single and best adapted mark to the genus, to which it is affix'd, hence it excels by its brevity and certainty, as from the nectaries alone is most easily perceived in the Parnassia, Nigella, Hellebore, Ranunculus, Aconite. But can this ever be obtain'd in all the genera? I greatly doubt; I much wish to see essential characters established in the umbelliferous plants, and in others.

18. Here therefore I deliver the *natural* characters, which exhibit clearly all the marks, which are obvious and common in the fructification: these before me, as far as I know, no one has given.

The uses and prerogatives of the natural character are

a. This kind of Character is applicable to all methods

thods discover'd, or to be discover'd, if only the system be built on the indestructible foundation of the Fructification. Let any one take his method from the calyx, from the corol, the stamens, the pistils, the fruit; the natural character must remain the same, where the genus is the same.

Formerly it was necessary to compose as many characters of all the genera, as there were systems publish'd: but this being given as a foundation, it is not so now.

b. If a thousand new genera were discover'd, it would not be necessary to add or to take away a single mark, upon that account from the next natural genus; which in all other circumstances would be inevitable.

c. This character, or this definition of a genus, may be distinctly deliver'd without any method and in any book, you please, and be retain'd and understood as perfectly as when arranged under its proper class.

d. It expresses the same idea, should the name be changed a thousand times.

e. You may observe more marks, than are necessary to distinguish a given genus from others, these evince, that you certainly have the genus required and no other

other; if any marks would be superfluous, were all the genera discover'd, must be determined by posterity.

19. I have selected the *marks* in describing every part of the fructification, which are certain and real, not those which are vague and fluctuating. Others have frequently assumed the taste, the odour, the size, (without the proportion); these you will never find adduced by me, but only these four certain immutable mechanic principles: *Number, Figure, Situation, and Proportion*. These four attributes, with those twenty-six letters, above-mentioned, (11), distinguish the genera so certainly from each other, that nothing more is wanted. There are other marks for distinguishing genera, but these alone being consider'd, the rest become superfluous, nor is there any necessity to fly to the habit of the plant.

20. In forming such a character all the known Species must be examin'd; the four marks, (19) observable in all the parts of the Fructification are to be accurately described; those, which do not agree with all the Species, are to be excluded; and those only, which agree, are to be retain'd; but, since it is not in the power of one man to see all the Species, He who sees more Species, and observes marks in them which differ, should exclude these marks from the character, so that Posterity may view our labours compleated.

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21. Those

21. Those, I foresee, who wish to acquire knowledge without labour, will complain of the difficulty of scrutinizing the small parts of the fructification, I must answer that no more certain method can be produced, for example, no one will deny, but that all animals, even insects, can only be distinguished by the external marks or their structure; if therefore an insect should be so small, that it is scarcely perceptible to the eye, yet must you examine the parts of it, before you can distinguish whether it be a *Monoculus*, or an *Acarus*, the same in Plants. Every part, which I have described, I have seen with my naked eye, without glasses; nor can this be more difficult to others, but agreeable and delightful.

22. I am confident the *Flower* is much to be prefer'd to the *Fruit* in determining the genera, though others have been of a quite different opinion; and that the *Nectaries* are of greater advantage in determining the Genera, than almost any other part; altho' so much neglected and overlook'd by others, that they even had not a name given them.

23. New *Names* should alarm no one, if they are not agreeable to you, form new ones yourself; or retain the added synonyms, if they are more agreeable, the reasons which induced me to change them, I have given in the *Critica Botanica*.

24. I have given credit to no Authors except *Dillenius* in his *Hortus Elthamensis*, and to *Rheede* in his *Hortus Malabaricus*, whom I have found to be accurate; and to *Plumiere* in respect to American Plants, as there were no other Authors to recur to.

Yet have I cautiously distinguished them; having placed an *Asteric* * where I had the opportunity of examining the living plants: a *Cross* † where I could only have access to dry'd ones; and no mark, where I had not seen them at all, confiding only in Authors, or in their distinct drawings, where I could see them.

25. I have express'd my ideas in as few words as possible, more solicitous about essentials, than about the splendid and eloquent flowers of Latin.

26. I have used few *terms of art* in this work, and scarcely any but such as are known to every one, and have adduced no terms of *magnitude*, except such as are comparative with other parts. Whereever any doubts occur'd, I was more solicitous to avoid vain altercations, than to introduce them here, as for instance, where it was difficult to distinguish a Calyx from a Corol, when I have mention'd a flower bending according to the *motion of the Sun*, or contrary to it, I have spoken according to the conceptions of the vulgar; others have call'd it from the left to the right, and the contrary.

27. The

27. The *Species* arranged under the Genera, I have deliver'd in the *Species Plantarum*, publish'd at *Stockholm* in 1762.

28. The definitions of the parts of fructification are explain'd to young botanists in the *Philosophia botanica*.

29. The use of some Botanic System I need not recommend even to beginners, since without system there can be no certainty in Botany. Let two enquirers, one a Systematic, and the other an Empiric, enter a garden fill'd with exotic and unknown plants, and at the same time furnish'd with the best Botanic Library; the former will easily reduce the plants by studying the letters (11) inscribed on the fructification, to their Class, Order, and Genus; after which there remains but to distinguish a few species. The latter will be necessitated to turn over all the books, to read all the descriptions, to inspect all the figures with infinite labour; nor unless by accident can be certain of his plant.

30. I esteem it superfluous to add more to this preface. Who wishes to understand the rationale and laws of our theory may consult the *Fundamenta Botanica*, and *Philosophia Botanica*; who wishes to see more of our Sexual System must turn over our *Systema Naturæ*.

In this edition are various emendations, in particular I have added the characters of all the new genera, the plants belonging to which are recorded in the second edition of the *Species Plantarum*.

Upsal, Dec. 20. 1763.

K E Y

KEY OF THE SEXUAL SYSTEM.

MARRIAGES OF PLANTS.

Florescence.

PUBLIC MARRIAGES.

Flowers visible to every one.

IN ONE BED.

Husband and wife have the same bed.

All the flowers hermaphrodite: stamens and pistils in the same flower.

WITHOUT AFFINITY.

Husbands not related to each other.

Stamens not joined together in any part.

WITH EQUALITY.

All the males of equal rank.

Stamens have no determinate proportion of length.

- | | |
|-----------------|-------------------|
| 1. ONE MALE. | 7. SEVEN MALES. |
| 2. TWO MALES. | 8. EIGHT MALES. |
| 3. THREE MALES. | 9. NINE MALES. |
| 4. FOUR MALES. | 10. TEN MALES. |
| 5. FIVE MALES. | 11. TWELVE MALES. |
| 6. SIX MALES. | 12. TWENTY MALES. |
| | 13. MANY MALES. |

WITH SUBORDINATION.

Some males above others.

Two stamens are always lower than the others.

- | | |
|-----------------|------------------|
| 14. TWO POWERS. | 15. FOUR POWERS. |
|-----------------|------------------|

WITH AFFINITY.

Husbands related to each other.

Stamens cohere with each other, or with the pistil.

- | | |
|------------------------|------------------------|
| 16. ONE BROTHERHOOD. | 19. CONFEDERATE MALES. |
| 17. TWO BROTHERHOODS. | 20. FEMININE MALES. |
| 18. MANY BROTHERHOODS. | |

IN TWO BEDS.

Husband and wife have separate beds.

Male flowers and female flowers in the same species.

- | | |
|-----------------|-----------------|
| 21. ONE HOUSE. | 23. POLYGAMIES. |
| 22. TWO HOUSES. | |

CLANDESTINE MARRIAGES.

Flowers scarce visible to the naked eye.

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|----------------------------|
| 24. CLANDESTINE MARRIAGES. |
|----------------------------|

CHARACTERS OF CLASSES.

I. ONE MALE.

One husband in marriage.

One stamen in an hermaphrodite flower.

II. TWO MALES.

Two husbands in the same marriage.

Two stamens in an hermaphrodite flower.

III. THREE MALES.

Three husbands in the same marriage.

Three stamens in an hermaphrodite flower.

IV. FOUR MALES.

Four husbands in the same marriage.

Four stamens in the same flower with the fruit.

(if the two nearest stamens are shorter, it is referred to Class 14.)

V. FIVE MALES.

Five husbands in the same marriage,

Five stamens in an hermaphrodite flower.

VI. SIX MALES.

Six husbands in the same marriage.

Six stamens in an hermaphrodite flower.

(if the two opposite stamens are shorter, it belongs to Class 15.)

VII. SEVEN MALES.

Seven husbands in the same marriage.

Seven stamens in the same flower with the pistil.

VIII. EIGHT MALES.

Eight husbands in the same marriage.

Eight stamens in the same flower with the pistil.

IX. NINE MALES.

Nine husbands in the same marriage.

Nine stamens in an hermaphrodite flower.

X. TEN MALES.

Ten husbands in the same marriage.

Ten stamens in an hermaphrodite flower.

XI. TWELVE MALES.

Twelve husbands in the same marriage.

Twelve stamens to nineteen in an hermaphrodite flower.

XII. TWENTY MALES.

Generally twenty husbands, often more.

Stamens inserted on the calyx (not on the receptacle) in an hermaphrodite flower.

XII. MANY

XIII. MANY MALES.

Twenty males or more in the same marriage.

Stamens inserted on the receptacle, from 20 to 1000 in the same flower with the pistil.

XIV. TWO POWERS.

Four husbands, two taller than the other two.

Four stamens of which the two nearest are longer.

XV. FOUR POWERS.

Six husbands, of which four are taller.

Six stamens: of which four are longer, and the two opposite ones shorter.

XVI. ONE BROTHERHOOD.

Husbands, like brothers, arise from one base.

Stamens are united by their filaments into one body.

XVII. TWO BROTHERHOODS.

Husbands arise from two bases, as if from two mothers.

Stamens are united by their filaments into two bodies.

XVIII. MANY BROTHERHOODS.

Husbands arise from more than two mothers.

Stamens are united by their filaments into three or more bodies.

XIX. CONFEDERATE MALES.

Husbands joined together at the top.

Stamens are connected by the anthers forming a cylinder (seldom by the filaments).

XX. FEMININE MALES.

Husbands and wives growing together.

Stamens are inserted on the pistils, (not on the receptacle).

XXI. ONE HOUSE.

Husbands live with their wives in the same house, but have different beds.

Male flowers and female flowers are on the same plant.

XXII. TWO HOUSES.

Husband and wives have different houses.

Male flowers and female flowers are on different plants.

XXIII. POLYGAMIES.

Husbands live with wives and concubines.

Hermaphrodite flowers, and male ones, or female ones in the same species.

XXIV. CLANDESTINE MARRIAGES.

Nuptials are celebrated privately.

Flowers concealed within the fruit, or in some irregular manner.

ORDERS.

ORDERS are taken from the Females or Pistils; as classes from the Males or Stamens; but in the class of Confederate Males the Orders differ from others, as in

ONE FEMALE, Two Females, Three Females, &c. according to the number of Pistils.

The number of the pistils is reckoned from the Base of the style; but if there is no style, the calculation is made from the number of Stigmas.

EQUAL POLYGAMY, consists of many marriages with promiscuous intercourse.

That is of many florets furnished with stamens and pistils.

The flowers of these are vulgarly called Flosculous.

SPURIOUS POLYGAMY, where the beds of the married occupy the disk, and those of the concubines the circumference.

That is, the hermaphrodite florets occupy the disk, and the female florets without stamens surround the border, and that in three manners:

(a) SUPERFLUOUS POLYGAMY, when the married females are fertile, and thence the concubines superfluous.

That is, when the hermaphrodite flowers of the disk are furnished with stigmas, and produce seeds; and the female flowers also, which constitute the circumference, produce seeds likewise.

(b) FRUSTRANEOUS POLYGAMY, when the married females are fertile, and the concubines barren.

That is, when the hermaphrodite flowers of the disk are furnished with a stigma, and produce seeds; but the florets which constitute the circumference, having no stigma produce no seeds.

(c) NECESSARY POLYGAMY, when the married females are barren, and the concubines fertile.

That is, when the hermaphrodite flowers from defect of the stigma of the pistil, produce no seed; but the female flowers in the circumference produce perfect seeds,

(e) SEPARATE POLYGAMY, when many beds are so united that they constitute one common bed.

That is, when many flower-bearing calyxes are contained in one common calyx, so as to constitute one flower.

E R R A T A.

In page 257. of the Translation of the *System of Vegetables*. In l. 8. for—*Line* longitudinal nectar-bearing, *read*, with a longitudinal nectar-bearing *Line*. In l. 10. for—channel'd, *read*, latticed. And in l. 29. instead of—above: the claws, &c. *read*, with a nectar-bearing cavity above the claws. As these are material inaccuracies, which escaped correction, we take the opportunity of noticing them here.

In the Families of Plants.

- | | |
|--|-----------------------|
| Page 10 & 11, for Jasmínium | <i>read</i> Jásminum. |
| 26 & 36, for Dilátris, | ——Dilátris. |
| 54 for Eriocáulon, | ——Eriocáulon. |
| 59 & 61, for Prótea, | ——Protéa. |
| 60 for Æliphila, | ——Ægíphila. |
| 60 & 80, for Amannia, | ——Ammania. |
| 93 for Wigéla, | ——Weigéla. |
| 94 erase Nigrina. | |
| 135 for false jamine, | ——false jasminee. |
| 158 for Pæderia, | ——Pæderia. |
| 173, after the word, Ruffelia, S. add, Vahlia, Thunberg. nov. gen. p. 36. Mr. Dryander apprized us of the mistake of Dr. Murray, in inserting both Vahlia from Thunberg, and Ruffelia from the Supplement, in his Syst. Veget. ed. 14, p. 270, which are the same plant. | |
| 210 & 237, for Mandína, | ——Nándina. |
| 226 for Sibthórbia, | ——Sibthórpia. |
| 231 for Acórus, | ——Ácorus. |
| 247 for Chesnut, | ——Horfe-chesnut. |
| 250 & 257, for Gauréa, | ——Guaréa. |

251 for

ERRATA.

Page 251 for Elatine,	—Elatine.
269 for Ealtine,	—Elatine.
269 & 141, for Myrsine,	—Mýrsine.
350 & 360, for Baringtóna,	—Barringtóna.
801 for Nandína,	—Nándina.

360, Barringtóna, from the nov. gen. of Thunberg is repeated at p. 470, from the Supplement of the younger Linneus. This oversight was occasioned by these plants having been placed by their respective describers in different Classes; erase the latter.

417 for Hemiméris,	read Hemímeris.
418 for Githaréxylum,	—Citharéxylum.
441, 446, & 789, for íberis,	—Ibéris.
453 for Hespéris and Arábis,	—Hésperis and Árabis.
580 for Ósmínes,	—Osmítes.
643 for Nephélum.	—Nephélium.
702 for Menispépmum,	—Menispérmum.
799 for Lántana,	—Lantána.
805 for Schrophulária,	—Scrophulária.

N.B. The Reader is requested to correct the above Errata with his pen, as they refer chiefly to accents, or to the orthography of proper names, which the context will not assist him to rectify. We are sorry to observe, that some of the accents on capital letters are broken off in the printing, but these letters may still be distinguished by the eye from their being less than the others in their vicinity.

A D D E N D A.

The Reader is desired to add with a Pen the following English Names to their respective Families besides those already inserted.

Page 3	AMOMUM,	-	Ginger, Cardamon, Grains of Paradise.
63	SCABIOSA,	-	Devil's-bit.
67	GALIUM,	-	Goose-grass.
106	PRIMULA,	-	Auricula.
107	DODECATHEON,	-	Meadia.
116	PHLOX,	-	Lychnidea.
133	SOLANUM,	-	Bitter-Sweet, Love-Apple, Egg-Plant, Potatoe.
141	RHAMNUS,	-	Berry-bearing Alder, Christ's Thorn.
172	GENTIANA,	-	Less Centaury.
192	CHÆROPHYLLUM,	-	Cow-weed.
194	ANETHUM,	-	Fennel.
197	RHUS,	-	Poison-tree.
198	VIBURNUM,	-	Laurustinus, Golden-rose.
215	NARCISSUS,	-	Daffodil, Jonquil.
218	ALLIUM,	-	Onion, Leek.
223	SCILLA,	-	Star-Hyacinth.
227	CONVALLARIA,	-	Solomon's Seal.
228	HYACINTHUS,	-	Muscari, Hare-bell.
252	TROPÆOLUM,	-	Nasturtion.
260	VACCINIUM,	-	Bilberry, Cranberry.
266	POLYGONUM,	-	Bistort, Persicaria, Buck-wheat.

A D D E N D A.

- P. 271 LAURUS, - Cinnamon, Camphor, Benzoe, Sassafras.
 297 ARBUTUS, - Bear-berries.
 305 DIANTHUS, - Carnation, Clove, Sweet-William.
 331 RESEDA, - Dyer's-weed.
 337 PHILADELPHUS, - Syringa-rose.
 345 ROSA, - Brier, Eglantine.
 346 RUBUS, - Black-berry, Bramble.
 385 HELLEBORUS, - Christmas-rose, Winter Aconite, Bear's-foot.
 390 TEUCRIUM, - Ground-pine.
 412 ANTIRRHINUM, - Toad-flax.
 448 LUNARIA, - Honesty.
 452 CHEIRANTHUS, - Stock-July-flower.
 454 BRASSICA, - Cauliflower, Brocoli Savoy, Bore-cole-Cale.
 552 ARTEMISIA, - Taragon.
 528 TRAGOPOGON, - Salsify.
 551 TANACETUM, - Costmary.

A D V E R T I S E M E N T.

The System of Vegetables translated from Linneus by the Lichfield Botanical Society, in two Volumes Octavo, price 18s. in Boards, is Sold by Leigh and Sotheby, York-street, Covent-Garden.

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C L A S S I.

O N E M A L E.

(*Monándria.*)

I. O N E F E M A L E.

(*Monogýnia,*)

1. Cánna.
1350. Reneálmia. S.
2. Amómum.
3. Cóftus.
1351. Myrófma. S.
4. Alpínia.
5. Maránta.
6. Curcúma.
7. Kæmpféria.
8. Thália.
9. Boerhávia.
10. Salicórnia.
11. Hippúris.

II. T W O F E M A L E S.

(*Digýnia.*)

12. Corispérmum.
13. Callítriche.
14. Blítum.
1352. Mníarum. S.
15. Cínna.

A

ONE

ONE MALE.

(Monandria)

I. ONE FEMALE.

*(Monogýnia)*I. CÁNNA. (*Cane.*) * *Cannacorus Tournef.* 192.
Flowering Reed.

CAL. *Perianth* three-leaved : the *leaflets* lanced, erect, small, colour'd, permanent.

COR. one-petal'd, six-parted : *divisions* lanced, coalesced at the base, of which the *three exterior* erect, larger than the calyx ; the *three interior* larger than the exterior, (two erect, one reflected) constituting the upper lip.

Nectary petal-like, two-parted, the length and figure of the petals : the superior division ascending ; the inferior one revolute, counterfeiting the inferior lip of the corol.

STAM. *Filament* none. *Anther* linear, adhering to the superior margin of the nectary-bearing division.

PIST. *Germ* roundish, rugged, beneath. *Style* one, sword-form, adjoined to the anther-bearing nectary, lanced, the length and figure of the petal. *Stigma* linear, adjoined to the margin of the style.

PER. *Capsule* roundish, rugged, crowned, three-furrow'd, three-cell'd, three-valved.

SEEDS few, globular.

OBS. *The nectary is now esteemed by Linneus to be the lip of the corol, to which the style is adjoin'd.* M. R.

1350. RENEÁLMIA. S.

- CAL.** *Perianth* above, tubular, one-leaved, broken at top into two or three irregular teeth.
- COR.** one-petal'd. *Tube* straight, cylindric. *Border* three-cleft: the two superior divisions oblong, rounded, equal: the inferior division scarcely longer than the superior ones, channel'd, oblong.
- Nectary** adjoined to the tube of the corol, ascending under the superior divisions, straight, the length of the corol, oblong, one-tooth'd on each side of the base; then with an excavated sinus, it is dilated at top, and obtusely three-lobed.
- STAM.** *Filament* none. *Anther* one, inserted into the mouth of the tube, in the sinus of the inferior division of the corol, opposite to the nectary, free, straight, linear, end-nick'd, plough'd within with a furrow, the length and breadth of the corol-division.
- PIST.** *Germ* beneath, oblong, obscurely three-sided, smooth. *Style* thread-form, very smooth, erect, the length of the corol. *Stigma* targetted. *Headlet* flat, with the side declining to the nectary lop'd, perforated: the perforation passing into the style.
- PER.** *Berry* oblong, three-furrow'd, columnar, smooth, terminated by a navel, fleshy, three-cell'd in the middle: *Cells* soft, membranous.
- SEEDS** very numerous, oblong, lop'd, four-corner'd, very smooth.

2. AMÓMUM. *Mus. Cliff.* §. II. 5.

- CAL.** *Perianth* three-tooth'd, obscure, above.
- COR.** one-petal'd. *Tube* short. *Border* three-parted: divisions oblong, the middle one larger, the sinus opposite to this broader.
- Nectary** one-leaved, scarcely surpassing the divisions of the petal, inserted into the greater sinus of it.
- STAM.** *Filament* one, oblong, similar to the division of the petal. *Anther* adjoined.
- PIST.** *Germ* roundish, beneath. *Style* thread-form, the length of the stamen. *Stigma* obtuse.
- PER.** leathery, somewhat egg'd, three-corner'd, three-cell'd, three-valved.
- SEEDS** numerous.

OBS. *The nectary is now call'd a part of the corol; hence the corol is four-cleft. M. R. In Amomum Zinziber (Ginger) and Zerumbet, the border of the corol is three-cleft, or two-lip'd: the superior lip intire, the inferior one divided, between which is a three-lobed nectary. In Amomum Curcuma the border of the corol is six-cleft, unless the three internal divisions should be call'd a nectary. M.*

3. CÔSTUS. *Mus. Cliff.* §. 3.

CAL. *Perianth* three-tooth'd, very small, above.

COR. *Petals* three, lanced, erectish, concave, equal.

Nectary one-leaved, large, oblong, tube-inflated, two-lip'd: the inferior lip broader, longer than the corol: with border expanding, three-cleft: the intermediate division three-parted. The superior lip lanced, shorter, supplying the place of a filament.

STAM. the upper lip of the nectary supplies the place of the Filament, to which the two-parted *Anther* adjoins.

PIST. *Germ* beneath, roundish. *Style* thread-form, the length of the filament. *Stigma* headed, compressed, end-nick'd.

PER. *Capsule* roundish, crowned, three-cell'd, three-valved.

SEEDS numerous, triangular.

OBS. The Nectary is now called by Linneus the interior grinning corol, of which the inferior lip is three-parted: the middle division end-nick'd. M.

1351. MYRÔSMA. (*Perfume-odour.*) S.

CAL. *Perianth* above, double: the exterior one three-leaved: the leaflets equal, membranous, oblong, channelled, most entire: the interior one three-parted (scarcely three-leaved): with divisions equal, expanding, oblong, most entire, marked with a brown spot at top.

COR. one-petal'd, unequal. *Tube* very short: *Border* five-parted: the two superior divisions shorter, oblong, unequally end-nick'd: the three inferior divisions longer, three-cleft at top, gash'd: with the intermediate one shorter.

STAM. *Filament* one, free, or adjoined to the margin of the inferior intermediate division, membranous at the base, awl'd: *Anther* egg'd, compress'd.

PIST. *Germ* three-sided, beneath. *Style* thick, deflected, short, three-corner'd, slit longitudinally, first part hairy. *Stigma* valve-form, open, with lip dilated.

PER. *Capsule* three-cell'd, three-valved, three corner'd.

SEEDS numerous, angular.

4. ALPÍNIA.

4. ALPÍNIA. † *Alpina Plum.* II.

CAL. *Perianth* three-cleft, small, above.

COR. one-petal'd, unequal, and as if doubled: the *exterior one* three-cleft: with the *superior division* concave, the *lateral ones* flat; furnished with a *tube*. The *interior one* shorter: with the *border* three-cleft, the *lowest division* propending without the slit of the lateral divisions of the exterior corol: the *rest* end-nick'd. *Base* bellied.

STAM. *Filament* similar to the division of the interior corol. *Anther* linear, adjoined to the margin of the filament.

PIST. *Germ* roundish, beneath. *Style* simple. *Stigma* obtuse-three-corner'd.

PER. *Capsule* fleshy, egg'd, three-cell'd, three-valved.

SEEDS very numerous, egg'd, rather prominent at *top*, lop'd, tail'd at the *base*.

Receptacle pulpy, very large.

5. MARÁNTA. * *Plum.* 36.

CAL. *Perianth* three-leaved, lanced, small, above.

COR. one-petal'd, grinning. *Tubelet* oblong, compressed, oblique, inflected. *Border* six-cleft.: with the *exterior alternate divisions* egg'd, equal, less: one of which is lowest; two supreme; the *two alternate lateral ones* very large, roundish, representing the lower lip: the *highest* small, two-parted.

STAM. *Filament* membranous, like the division of the corol. *Anther* linear, adjoined to one margin of the filament.

PIST. *Germ* roundish, beneath. *Style* simple, the length of the corol. *Stigma* obscurely three-corner'd, inflected.

PER. *Capsule* roundish, obscurely three-corner'd, three-valved. *Plum.*

SEED one, egg'd, wrinkled, hard. *Plum.*

6. CURCUMA. †. *Muss. Cliff. §. II. 4. Turmeric.*

CAL. *Perianth* above, obscure.

COR. Tube of the *petal* narrow. *Border* three-parted: the *divisions* lanced, expanding, gaping wider in one sinus.

Nectary one-leaved, egg-pointed, greater than the divisions of the *petal*, inserted in the broader sinus of it.

STAM. *Filaments* five, of which *four* erect, linear, contracted: one (*the fifth*) within the *nectary*, linear, *petal*-form, with top two-cleft: *Anther* adjoined.

PIST. *Germ* roundish, beneath. *Style* the length of the *stamens*. *Stigma* simple, hook'd.

PER. *Capsule* roundish, three-cell'd, three-valved.

SEEDS very numerous.

7. KÆMPFÉRIA. *

CAL. *Perianth* above, obscure.

COR. one-petal'd. Tube long, slender. *Border* flat, six-parted: with *three alternate divisions* lanced, equal: the *two remaining divisions* egg'd: the *highest* two-parted, with divisions *inversely* hearted: all equal in length.

STAM. *Filament* one, membranous, somewhat egg'd, end-nick'd. *Anther* linear, doubled, the whole adjoined, scarce emerging from the tube of the corol.

PIST. *Germ* roundish. *Style* the length of the tube. *Stigma* two-folded, roundish.

PER. *Capsule* roundish, three-corner'd, three-cell'd, three-valved.

SEEDS numerous.

OBS. It seldom bears fruit. The *Germ* is placed near the root.

8. THÁLIA † Cortufa. Plum. 8.

CAL. *Perianth* - - - - -

COR. *Petals* five, egg-oblong, waved, concave: *two* of which near the *spathe* less, involute; the *rest* nearly equal, straight, concave.

STAM. *Filament* one. *Anther*.

PIST. *Germ* egg'd.

PER. *Drupe* egg'd, one cell'd.

SEED. *Nut* bony, two-cell'd.

9. BOER-

9. BOERHÁVIA. * *Vaill. ferm.* Antanifophyl-
lum. *Vaill. A. G.* 1722.

CAL. none.

COR. one-petal'd, bell'd, erect, five-angled, plaited, intire.

STAM. *Filament* one, or two, short. *Anther* twin, globular.

PIST. *Germ* beneath, angled, oblong. *Style* thread-form, short.
Stigma kidney-form.

PER. none.

SEED one, oblong, obtuse, narrower downward, six-angled.

OBS. *It is nearly allied to Valerian. The corol of B. erect is cylindrical, and the stigma headed. R.*

10. SALICÓRNIA. (*Salt-horns.*) * *Tournef* 485.
Glasswort.

CAL. four-corner'd, lop'd, bellied, permanent.

COR. none.

STAM. *Filament* one, simple, longer than the calyx. *Anther* one,
oblong, twin, erect.

PIST. *Germ* egg-oblong. *Style* simple, under the stamen. *Stigma*
two-cleft.

PER. none. *Calyx* bellied, inflated.

SEED one.

OBS. *One Stamen I formerly saw in an annual cultivated plant, others afterwards observed two Filaments. In a certain virginian species, a living plant of which I lately saw, the Calyx was a scale egg'd, concave like a spoon, erect: the Stamens certainly two: the Pistil above. M.*

11. HIPPURIS. (*Horse-Tail.*) * *Limnopeuce*
Vaill. A. G. 1719. *Pinafella*
Dill. p. 168. *Mare's-Tail.*

CAL. none.

COR. none.

STAM. *Filament* one, sitting on the receptacle of the flower. *Anther*
half-two-cleft.

PIST. *Germ* oblong, above. *Style* one, awl'd, erect, between the sta-
men and stem, longer than the stamen. *Stigma* acute.

PER. none.

SEED one, roundish, naked.

II. TWO FEMALES.

(Digýnia.)

12. CORISPÉRMUM. (*Tickseed.*) * *Juss. A. G.*

1712.

CAL. none.

COR. *Petals* two, compressed, incurved, pointed, opposite, equal.STAM. *Filament* one, thread-form, shorter than the petals. *Anther* simple.PIST. *Germ* acute, compressed. *Styles* two, capillary. *Stigmas* acute.

PER. none.

SEED one, oval, compressed, gibbous on one side, with margin acute.

OBS. *In the lowest flowers there are often 2, 3, 4, or 5 stamens; in the rest one.*13. CALLÍTRICHE. (*Fine-Hair.*) * *Stellaria*
Dill. gen. 6. Stargrass.

CAL. none.

COR. *Petals* two, incurved, pointed, channel'd, opposite.STAM. *Filament* one, long, recurved. *Anther* simple.PIST. *Germ* roundish. *Styles* two, capillary, recurved. *Stigmas* acute.PER. *Capsule* roundish, quadrangular, compressed, two-cell'd.

SEEDS solitary, oblong.

OBS. *Vernal C. is of the class one-house.*14. BLÍTUM. * *Chenopodio - Morus. Boerb.*
*Morocarpus Rupp. Blite.*CAL. *Perianth* three-parted, expanding, permanent: the divisions egg'd, equal, two gaping wider.

COR. none

STAM. *Filament* bristly, longer than the calyx, within the intermediate division, erect. *Anther* twin.PIST. *Germ* egg'd, pointed. *Styles* two, erect, gaping, the length of the stamen. *Stigmas* simple.PER. *Capsule* very slender (almost the crust of the seed) egg'd, a little compressed, received by the calyx made into a berry.

SEED one, globular, compressed, the size of the capsule.

1352. MNÍARUM. S. Forst. gen. n. 1.

CAL. *Perianth* above, small, four-parted: the *divisions* equal, erect, awled, obtuse, rigid.

COR. none.

STAM. *Filament* one, capillary, erect, scarcely longer than the calyx, inserted into the base of the calyx. *Anther* egg'd, furrow'd.

PIST, *Germ* beneath, oval, scarcely angular, hard, longer than the calyx. *Styles* two, thread-form, gradually divaricated, the length of the calyx. *Stigmas* simple.

PER. *Germ* unchanged, cloathed with the calyx.

SEED (more properly cotyledons?) one, oblong, very small.

15. CÍNNA. *

CAL. *Glume* one-flower'd, two-valved, compressed, linear, keel'd, pointed: one valvelet shorter, dagger'd.

COR. *Glume* two-valved, compressed, linear: the *exterior* valve within the lesser one of the calyx, longer, somewhat awned under the top. The *interior* valve slender, shorter.

STAM. *Filament* one, capillary. *Anther* oblong, two-fork'd at both ends.

PIST. *Germ* top-shape. *Styles* two, capillary, very short. *Stigmas* longer, feathery.

PER. none. *Glume* involves.

SEED one, cylindric.

CLASS

CLASS. II.

TWO MALES.

(*Diándria.*)

I. ONE FEMALE.

(*Monogýnia.*)

16. Nyctánthes.	1228. Cálceolária.
17. Jasmínium.	30. Pinguícula.
18. Lygústrum.	31. Útriculária.
19. Phillýrea.	32. Verbéna.
20. Ólea.	33. Lýcopus.
21. Chionánthus.	34. Amethystéa.
22. Syrínga.	35. Cuníla.
1240. Diálium.	36. Zizíphora.
23. Eránthemum	37. Monárda.
24. Circæa.	38. Rosmarínus.
25. Verónica.	39. Sálvia.
26. Pæderóta.	40. Collinfónia.
27. Justícia.	41. Morína.
28. Dianthéra.	1287. Glóbba.
29. Gratiola.	1353. Thouínia. S.
1233. Swénkia.	1354. Ancístrum. S.

II. TWO FEMALES.

(*Digýnia.*)

42. Anthoxánthum.

III. THREE FEMALES.

(*Trigýnia.*)

43 Píper.

TWO

TWO MALES.

(*Didndria.*)

I. ONE FEMALE.

(*Monogýnia.*)16. NYCTÁNTHES. * (*Night-flower.*) *Arabian*
*Jesmine.*CAL. *Perianth* one-leaved, half-eight-cleft, cylindric, very small, (the
toothlets awl'd) permanent.COR. one-petal'd, salver-form. *Tube* cylindric, longer than the calyx.
Border flat, eight-parted, expanding : with *divisions* oblong.STAM. *Filaments* two, awl'd, very small, inserted into the receptacle.
Anthers erect, acutish.PIST. *Germ* roundish, depressed. *Style* simple, the length of the tube.
Stigmas two, erect.PER. *Berry* roundish, twin, two-cell'd.

SEEDS. solitary, large, roundish.

OBS. *The fruit of the N. arbor tristis (sorrowful-tree) is dry, capsular.*
R.17. JASMINUM. * *Tournef.* 368. *Jasmine.*CAL. *Perianth* one-leaved, tubular, oblong : (the *mouth* five-tooth'd,
erect) permanent.COR. one-petal'd, salver-form. *Tube* cylindric, long. *Border* five-
parted, flat.STAM. *Filaments* two, short. *Anthers* small, within the tube of the
corol.PIST. *Germ* roundish. *Style* thread-form, the length of the stamens.
Stigma two-cleft.PER. *Berry* oval, smooth, two-cell'd or two-capsuled.SEEDS two, large, egg-oblong, aril'd, convex on one side, flat on the
other.OBS. *The pointed and obtuse figure of the flower varies. The berry in*
some is simple, in others twin.

18. LIGUS-

18. *LIGÚSTRUM*. * *Tournef.* 367. *Privet.*

CAL. *Perianth* one-leaved, tubular, very small: the *mouth* four-tooth'd, erect, obtuse.

COR. one-petal'd, funnel-form. *Tube* cylindric, longer than the calyx. *Border* four-parted, expanding: with *divisions* egg'd.

STAM. *Filaments* two, opposite, simple. *Anthers* erect, almost the length of the corol.

PIST. *Germ* roundish. *Style* very short. *Stigma* two-cleft, obtuse, thickish.

PER. *Berry* globular, smooth, one-cell'd.

SEEDS four, convex on one side, angular on the other.

19. *PHILLÝREA*. * *Tournef.* 367. *Vaill. A. G.* 1722.

CAL. *Perianth* one-leaved, tubular, four-tooth'd, very small, permanent.

COR. one-petal'd, funnel-form. *Tube* scarcely any. *Border* four-parted, revolute, acute; with *divisions* egg'd.

STAM. *Filaments* two, opposite, short. *Anthers* simple, erect.

PIST. *Germ* roundish. *Style* simple, the length of the stamens. *Stigma* thickish.

PER. *Berry* globular, one-cell'd.

SEED one; globular, large.

20. *ÓLEA*. * *Tournef.* 370. *Vaill. A. G.* 1722. *Olive.*

CAL. *Perianth* one-leaved, tubular, small: (the *mouth* four-tooth'd, erect) deciduous.

COR. one-petal'd, funnel-form. *Tube* cylindric, the length of the calyx. *Border* four-parted, flat: with *divisions* half-egg'd.

STAM. *Filaments* two, opposite, awl'd, short. *Anthers* erect.

PIST. *Germ* roundish. *Style* simple, very short. *Stigma* two-cleft, thickish, with *divisions* end-nick'd.

PER. *Drupe* somewhat egg'd, smooth, one-cell'd.

SEED *Nut* egg-oblong, wrinkled.

OBS. *The American Olive* has male and female flowers with hermaphrodite ones on the same plant: *The nut* inverse-egg'd, *substriated*; perforated at the base. R.

21. *CHIO-*

21. CHIONANTHUS. (*Snow-flower.*) * *Royeni.* *Fringe-tree.*

- CAL.** *Perianth* one-leaved, four-parted, erect, pointed, permanent.
COR. one-petal'd, funnel-form. *Tube* very short, the length of the calyx, spreading. *Border* with four divisions, linear, erect, acute, oblique, longest of all.
STAM. *Filaments* two, very short, awl'd, inserted into the tube. *Anthers* hearted, erect.
PIST. *Germ* egg'd. *Style* simple, the length of the calyx. *Stigma* obtuse, three-cleft.
PER. *Drupe* round, one-cell'd.
SEED Nut striated.
OBS. *The number of the stamens is often also three.*

22. SYRINGA. ** *Lilac Tournef.* 372. *Lilac.*

- CAL.** *Perianth* one-leaved, tubular, small: (the *mouth* four-tooth'd, erect) permanent.
COR. one-petal'd, funnel-form, very long. *Border* four-parted, broad-revolute: with *divisions* linear, obtuse.
STAM. *Filaments* two, very short. *Anthers* small, within the tube of the corol.
PIST. *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigma* two-cleft, thickish.
PER. *Capsule* oblong, compressed, pointed, two-cell'd, two-valved, valvelets contrary to the partition.
SEEDS solitary, oblong, compressed, pointed at both ends, margin membranous.

1240. DIALIUM.

- CAL.** none.
COR. *Petals* five, equal, sessile, elliptic, obtuse, deciduous.
STAM. *Filaments* two, conic, very short, situated on the superior side of the receptacle. *Anthers* oblong, obtuse, coalesced as it were from two.
PIST. *Germ* above, egg'd. *Style* awl'd, declining, the length of the stamens. *Stigma* simple, ascending towards the top of the anthers.
PER. *Legume*?
SEED

23. ERÁNTHEMUM. †. *Earth-flower.*

CAL. *Perianth* five-cleft, tubular, very narrow, erect, short, pointed, permanent.

COR. one-petal'd, funnel-form: *Tube* thread-form, very long. *Border* five-parted (sometimes four-parted,) flat: with *divisions* inverse-egg'd.

STAM. *Filaments* two, very short, in the throat of the corol. *Anthers* somewhat egg'd, compressed, without the tube.

PIST. *Germ* egg'd, very small. *Style* thread-form, the length of the stamens. *Stigma* simple.

PER. - - - - -

SEED - - - - -

OBS. *I have seen only one specimen, therefore I commit it to others to be attentively examined.*

24. CIRCÆA. * *Tournef. 155. Enchanter's Nightshade.*

CAL. *Perianth* two-leaved: with leaflets egg'd, concave, deflected, deciduous.

COR. *Petals* two, inverse-hearted, generally shorter than the calyx, expanding, equal.

STAM. *Filaments* two, capillary, erect, the length of the calyx. *Anthers* roundish.

PIST. *Germ* top-shape, beneath. *Style* thread-form, the length of the stamens. *Stigma* obtuse, end-nick'd.

PER. *Capsule* top-egg'd, hispid, two-cell'd, two-valved, gaping from the base towards the top.

SEEDS solitary, oblong, narrower downwards.

25. VERÓNICA. * *Tournef.* 60. *Speedwell*,

CAL. *Perianth* four-parted, permanent: the *divisions* lanced, acute.

COR. one-petal'd, wheel'd. *Tube* nearly the length of the calyx. *Border* four-parted, flat, with *divisions* egg'd: the lowest narrower, the one opposite to it broader.

STAM. *Filaments* two, narrower downwards, ascending. *Anthers* oblong.

PIST. *Germ* compressed, *Style* thread-form, the length of the *stamens*, declining. *Stigma* simple.

PER. *Capsule* inverse-hearted, compressed at top, two-cell'd, four-valved.

SEEDS very numerous, roundish.

OBS. *The tube of the corol is different in divers plants: in most it is very short, in the spiked ones it is long.*

The calyx is five-cleft in V. Sibirica (Siberian) Teucrium, prostrata (prostrate) pectinata (comb) austriaca (austrian) multifida (many-cleft) latifolia (broad-leaved.)

The capsule is egg'd of V. pinnata (feather'd.)

The fruit of the V. montana (mountain) is orbicular, end-nick'd at the base and top.

The capsule of V. biloba (two-lobed) is compressed, two-parted, with lobes diverging semi-orbicular. R.

26. PÆDERÓTA. (*Youth's delight.*) † Bonarota
Mich. 15.

CAL. *Perianth* five-parted: with *leaflets* linear, equal, expanding, permanent.

COR. one-petal'd, somewhat wheel'd, four-cleft, obtuse: the superior lobe broader, frequently end-nick'd.

STAM. *Filaments* two, thread-form, ascending, shorter than the corol. *Anthers* converging, egg'd, acute, two-valved.

PIST. *Germ* egg'd. *Style* awl'd, deflected, the length of the *stamens*, permanent.

PER. *Capsule* egg'd, longer than the calyx, two-cell'd, gaping at top.

SEEDS very numerous, roundish.

OBS. *Allied to Veronica, differs in the calyx being five-parted.*

27. JUSTÍCIA. * *Houft.* A. A. Adhatoda *Tournef.* 79.

CAL. *Perianth* one-leaved, very small, five-parted, acute, erect, narrow.

COR. one-petal'd, grinning. *Tube* gibbous. *Border* two-lip'd : *Superior lip* oblong, end-nick'd : *Lower lip* of the same length, reflected, three-cleft.

STAM. *Filaments* two, awl'd, conceal'd under the upper lip. *Anthers* erect, two-cleft at the base.

PIST. *Germ* top-shape *Style* thread-form, the length and situation of the stamens. *Stigma* simple.

PER. *Capsule* oblong, obtuse, narrow'd at the base, two-cell'd, two-valved with partition contrary to the valvelets, gaping with an elastic claw.

SEEDS roundish.

OBS. Upper lip of the corol differs in situation.

Some species recede so far from this character, you would believe them of a different genus,—of which see descriptions in *Mant.* p. 172. R.

28. DIANTHÉRA. (*Two-anther.*) * *Gronov.* 6.

CAL. *Perianth* one-leaved, five-parted, tubular : the divisions lanced, equal, the length of the tube, permanent.

COR. one-petal'd, grinning. *Tube* short. *Upper lip* flattish, reflected, two-cleft, very obtuse ; *Under lip* three-parted : with divisions oblong, equal, obtuse, distant : the intermediate one broader.

STAM. *Filaments* two, thread-form, shorter than the corol, adjoined to the back of the corol, the length of the upper lip. *Anthers* on each filament double, oblong : one rather higher.

PIST. *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigma* obtuse.

PER. *Capsule* two-valved, two-cell'd, compressed above and below, but alternately, (with boat-like valves,) bursting with an elastic claw.

SEEDS solitary, lens-form.

OBS. It differs from *Justicia* in the stamens.

29. GRA-

29. GRATIOLA. *

- CAL. *Perianth* five-parted, erect : the *divisions* awl'd, permanent.
 COR. one-petal'd, unequal. *Tube* longer than the calyx, angular.
Borae four-parted, small : with *superior division* broader, end-
 nick'd, reflected ; the *rest* straight, equal.
 STAM. *Filaments* four, awl'd, shorter than the corol, whereof the two
 inferior shorter, sterile : the *two superior* adjoined to the tube
 of the petal. *Anthers* roundish.
 PIST. *Germ* conic. *Style* straight, awl'd. *Stigma* two-lip'd, con-
 verging after fecundation.
 PER. *Capsule* egg'd, pointed, two-cell'd, two-valved.
 SEEDS. very numerous, small.
 OBS. *The essence of its character is in the two castrated stamens.*
G. Monmeria has four anther-bearing filaments, and the *stigma*
headed. *G. rotundifolia* (round-leaved) has the calyx five-parted ;
 the capsule compressed roundish ; stamens two. *G. officinalis* (offi-
 cinal) has perianth seven-leaved, the two exterior expanding.

1233. SCHWENKIA. *Dau van. Royen.*

- CAL. *Perianth* one-leaved, tubular, striated, straight, five-tooth'd,
 permanent.
 COR. one-petal'd : tube cylindric, the length of the calyx, inflated in
 the throat, five-plaited : with the plaits closing the orifice star-
 wise ; with a glandular body growing on the angles of the ex-
 terior plaits : the two superior glands longer.
 STAM. *Filaments* five, three shorter, bristly, castrated, two superior
 longer, fertile : *Anthers* (two) egg'd, acute, two-cell'd.
 PIST. *Germ* globular. *Style* simple, the length of the stamens. *Stigma*
 obtuse.
 PER. *Capsule* flat-lensform, smooth, longer than the enlarged calyx,
 two-cell'd, two-valved.
 SEEDS. numerous, very small, subangular. *Receptacle* subglobular.
 OBS. *It comes next to Brownwallis in the natural order.*

1288. *CÁLCEOLÁRIA*. (*Slipper.*) *Fevil peruv.*
tom. 3. p. 13.

- CAL. *Perianth* one-leaved, four-parted, expanding, equal, (the divisions egg'd) permanent.
COR. one-petal'd, two-lip'd : with lower lip reflexed. The upper lip very small, globe-contracted, two-cleft before. The lower lip very large, slipper-form, inflated, gaping before.
STAM. *Filaments* two, very short, within the upper lip. *Anthers* incumbent, club'd, with a small prominence through the cleft.
PIST. *Germ* roundish. *Style* very short. *Stigma* obtusish.
PER. *Capsule* subconic, pointed, two-furrow'd, two-cell'd, four-valved.
SEEDS numerous, egg'd.

30. *PINGUÍCULA*. (*Fattishness.*) * *Tournef.* 74.
Butterwort.

- CAL. *Perianth* grinning, small, acute, permanent. *Upper lip* erect, three-cleft; *under lip* reflected, two-cleft.
COR. one-petal'd, grinning. *Longer lip* straight, obtuse, three-cleft, supine; *shorter lip* two-cleft, obtuse, more expanding.
Nectary horned, produced from behind the base of the petal.
STAM. *Filaments* two, cylindric, curved, ascending, shorter than the calyx. *Anthers* roundish.
PIST. *Germ* globular. *Style* very short. *Stigma* two-lip'd : *Upper lip* larger, flat, reflected, covering the anthers; *under lip* very narrow, erect, two-cleft, shorter.
PER. *Capsule* egg'd, compressed at top, gaping at top, one-cell'd.
SEEDS very numerous, cylindric. *Receptacle* free.

31. *ÚTRICULÁRIA*. (*Bladder-wort.*) * *Lentibularia* Vaill. A. G. 1719.
Dill. gen. 6. *Water-milfoil.*

- CAL. *Perianth* two-leaved: the leaflets egg'd, concave, very small, equal, deciduous.
COR. one-petal'd, grinning. *Upper lip* flat, obtuse, erect; *under lip* larger, flat, intire. *Palate* hearted, rather prominent between the lips.
Nectary horn'd, produced from the base of the petal.
STAM. *Filaments* two, very short, incurved. *Anthers* small, cohering.
PIST. *Germ* globular. *Style* thread-form, the length of the calyx. *Stigma* conic.
PER. *Capsule* globular, large, one-cell'd.
SEEDS very numerous.

32. VERBENA. * *Tournef.* 94. *Vaill.* *Sherardia.*
Vaill. *Blairia* *Houst.* A. A.
Kæmpfer *Houst.* A. A. *Vervain.*

CAL. *Perianth* one-leaved, angular, tubular, linear, five-tooth'd, (the fifth toothlet lop'd) permanent.

COR. one-petal'd, unequal. *Tube* cylindric, straight, the length of the calyx, afterwards dilated, incurved. *Border* expanding, half-five-cleft: with *divisions* rounded, subequal.

STAM. *Filaments* two or four, bristly, very short, concealed within the tube of the corol, of which two shorter than the rest. *Anthers* incurved, as many as the filaments.

PIST. *Germ* four-corner'd. *Style* simple, thread-form, the length of the tube. *Stigma* obtuse.

PER. very slender, and scarcely manifest, or almost none. The calyx containing the seeds.

SEEDS two, or four, oblong.

OBS. *Sherardia* of *Vaill.* contains the seeds, and two *Anthers* within a narrow calyx.

V. lappulacea (berry) contains the hedgehog-seeds and two *Anthers* within an inflated calyx.

Verbena of *Vaill.* produces obtuse seeds and four *Anthers*.

In *V. curassavica* (of *curassou*) the Calyx is prominent with four acute bristles and hath two stamens.

33. LYCOPUS. (*Wolfsfoot.*) * *Tournf.* 89.
Water-horehound.

CAL. *Perianth* one-leaved, tubular, half-five-cleft; the divisions narrow, acute.

COR. one-petal'd, unequal. *Tube* cylindric, the length of the calyx. *Border* four-cleft, obtuse, spreading: with *divisions* subequal; the superior one broader, end-nick'd; the inferior one less.

STAM. *Filaments* two, commonly longer than the corol, inclining to the superior division of it. *Anthers* small.

PIST. *Germ* four-cleft. *Style* thread-form, straight, the length of the stamens. *Stigma* two-cleft, reflected.

PER. none. Calyx containing the seeds in its bottom.

SEEDS four, roundish, retuse.

34. AMETHYSTÉA. * *Amethystina. Amman. Hall.*
Amethyst.

- CAL. *Perianth* one-leaved, tube-bell'd, angular, half-five-cleft, subequal, pointed, permanent.
- COR. one-petal'd, grinning, rather longer than the calyx. *Border* five-parted, subequal: *Upper lip* erect, rounded, concave, two-parted, gaping. *Under lip* three-parted, the lateral divisions rounded, erect, shorter, the intermediate one most intire, concave, the length of the upper lip.
- STAM. *Filaments* two, thread-form, approximated, under the upper lip, and longer than it. *Anthers* simple, roundish.
- PIST. *Germ* four-cleft. *Style* the size of the stamens. *Stigmas* two, acute.
- PER. none. *Calyx* more bell'd, expanding.
- SEEDS four, shorter than the calyx, obtuse, gibbous, angular within.

35. CUNILA. * *Hedysmos D. Royen. Mitch. act.*
N. C. 1748. app. 211.

- CAL. *Perianth* one-leav'd, cylindric, permanent, ten-friated; (the mouth somewhat lip'd, five-tooth'd) permanent.
- COR. one-petal'd, grinning. *Upper lip* erect, flat, end-nick'd. *Under lip* three-parted; with divisions rounded: the middle one end-nick'd.
- STAM. *Filaments* two, thread-form, and two rudiments of filaments. *Anthers* roundish, twin.
- PIST. *Germ* four-parted. *Style* thread-form, the length of the stamens. *Stigma* two-cleft, acute.
- PER. none. *Calyx* throat closed with hairs.
- SEEDS four, oval, minute.

36. ZIZIPHORA. *

- CAL. *Perianth* one-leav'd, tubular, cylindric, very long, striated, hispid: the mouth five-tooth'd, very small; throat bearded.
- COR. one-petal'd, grinning. *Tube* cylindric, the length of the calyx. *Border* very small: *Upper lip* egg'd, reflected, intire. *Under lip* expanding, broader, three-cleft; with *divisions* rounded, equal.
- STAM. *Filaments* two, simple, expanding, nearly the length of the corol. *Anthers* oblong, distant
- PIST. *Germ* four-cleft. *Style* bristly, the length of the corol. *Stigma* pointed, inflected.
- PER. none. *Calyx* unchanged.
- SEEDS four, much shorter than the calyx, oblong, obtuse, gibbous on one side. angular on the other.

37. MONARDA. *

- CAL. *Perianth* one-leav'd, tubular, cylindric, striated: (the mouth five-tooth'd, equal) permanent.
- COR. *Petal* one, unequal. *Tube* cylindric, longer than the calyx. *Border* grinning. *Upper lip* straight, narrow, linear, intire: *Under lip* reflected, broader, three-cleft: the *middle division* longer, narrower, end-nick'd; the lateral ones obtuse.
- STAM. *Filaments* two, bristly, the length of the upper lip, from which they are involute. *Anthers* compressed, lop'd above, convex beneath, erect.
- PIST. *Germ* four-cleft. *Style* thread-form, involute with the stamens. *Stigma* two-cleft, acute.
- PER. none. *Calyx* containing the seeds in its bottom.
- SEEDS four, roundish.
- Obs. *M. didyma* (twin) has four stamens, two of which are castrated.

38. ROSMARINUS. (*Sea-dew.*) * *Tournef.* 92.
Rosemary.

CAL. *Perianth* one-leaved, tubular, compressed upwards: the *mouth* erect, two-lip'd: the *upper lip* intire; the *under one* two-cleft.

COR. *Petal* one, unequal. *Tube* longer than the calyx. *Border* grinning: *Upper lip* two-parted, erect, shorter, acute, with margins reflected; *under lip* reflected, three-cleft: the *middle division* largest, concave, narrow at the base; the *lateral ones* narrow, acute.

STAM. *Filaments* two, awl'd, simple with a tooth, inclined towards the upper lip, and longer than it. *Anthers* simple.

PIST. *Germ* four-cleft. *Style* the figure, situation, and length of the stamens. *Stigma* simple, acute.

PER. none. *Calyx* containing the seeds in its bottom.

SEEDS four, egg'd.

OBS. *Approaches very nearly to the Sages, to be distinguished by the stamens not being two-fork'd.*

39. SÁLVIA. * *Tournef.* 83. *Horminum Tournef.*
 82. *Sclarea Tournef.* 82. *Sage.*

CAL. *Perianth* one-leaved, tubular, striated, gradually enlarged and compressed upwards: the *mouth* erect, two-lip'd; the *under one* two-tooth'd.

COR. *Petal* one, unequal. *Tube* enlarged upwards, compressed. *Border* grinning: *Upper lip* concave, compressed, incurved, end-nick'd; *under lip* broad, three-cleft: the *middle division* larger, roundish, end-nick'd.

STAM. *Filaments* two, very short; to these two others affixed nearly transversely in the middle, with a *Gland* on their lower extremity, the *Anther* seated on the superior one.

PIST. *Germ* four-cleft. *Style* thread-form, very long, in the situation of the stamens. *Stigma* two-cleft.

PER. none. *Calyx* slightly converging, bearing the seeds in its bottom.

SEEDS four, roundish,

OBS. *The singular two-forking of the Filaments constitutes its essential character.*

There are Rudiments of two stamens, but sterile, in the throat of the corol. The Gland in most is callous; but in a few there occurs as it were the rudiment of an anther, in some a little dust-bearing.

The Calyx and Corol in some depart a little from the above description. R.

40. COLLINSÓNIA. *

CAL. one leaved, tubular, two-lip'd: (the *upper lip* three-cleft, reflected, broader, the *under one* two-parted, more erect, awl'd) permanent.

COR. one-petal'd, unequal. *Tube* funnel-form, many times longer than the calyx. *Border* five-cleft: the superior *divisions* obtuse, very short; the two highest reflected. *Under lip* longer, many-cleft-capillary.

STAM. *Filaments* two, bristly, erect, very long. *Anthers* simple, incumbent, compressed, obtuse.

PIST. *Germ* four-cleft, obtuse, with a larger *Gland* lying under the germs. *Style* bristly, the length of the stamens, inclined to one side. *Stigma* two-cleft, acute.

PER. none. The *Calyx* contains the seed in its bottom, grinning with an irregular mouth.

SEED one, globular.

OBS. *Four seeds seem natural from the germs, although but one comes to maturity.*

41 MORÍNA. * *Tournef.* 480. *Diototheca Vaill.*
A. G. 1722.

CAL. double. *Perianth* of the fruit beneath, one-leaved, cylindric, tubular, permanent: the *mouth* tooth'd: the two opposite *toothlets* longer; all awl'd, acute.

Perianth of the flower above, one-leaved, tubular, two-cleft; (the *divisions* end-nick'd, obtuse, permanent, erect,) the size of the exterior one.

COR. one-petal'd, two-lip'd. *Tube* very long, enlarged upwards, a little incurved, thread-form below. *Border* flat, obtuse: the *upper lip* half-two-cleft, less; *under-lip* three-cleft: all the *divisions* obtuse, uniform; the middle one more produced.

STAM. *Filaments* two, bristly, approximated to the style, parallel, shorter than the border. *Anthers* erect, hearted, distant.

PIST. *Germ* globular, under the receptacle of the flower. *Style* longer than the stamens, thread-form. *Stigma* head-targetted, inflected.

PER. none.

SEED one, roundish, crowned with the calyx of the flower.

1287. GLÓBBA.

CAL. *Perianth* above, one-leav'd, cylindric; (the mouth three-cleft) permanent.

COR. one-petal'd, cylindric; the mouth three-cleft, equal.

STAM. *Filaments* two, thread-form, middle size. *Anthers* adjoin'd longitudinally to the filaments.

PIST. *Germ* beneath. *Style* bristly, middle size. *Stigma* acute.

PER. *Capsule* roundish, three-cell'd, three-valved.

SEEDS. very numerous.

1353. THOUÍNIA. *Thunberg. S.*

CAL. *Perianth* beneath, very small, four-parted, almost four-leav'd. *Leaflets* equal, egg'd.

COR. *Petals* four, equal, linear, channel'd, erect, spreading at top, four times longer than the calyx.

STAM. *Filaments* scarcely any. *Anthers* sessile, in the bottom of the flower, opposite: each adhering to the margin of two petals, oblong, with a longitudinal furrow, two-cleft at top.

PIST. *Germ* above, oblong, smooth, subcompressed. *Style* short, the length of the anthers, smooth. *Stigma* egg-oblong, rather end-nick'd:

PER. none.

SEED. none.

1354. ANCÍSTRUM. *Forst. gen. n. 2. S.*

CAL. *Perianth* one-leav'd, top-shape, lop'd, four-tooth'd. *Teeth* cylinder-awn'd, erect, terminated with four reverted hooks.

COR. above, one-petal'd. *Tube* very short. *Border* spreading, four-cleft, *Divisions* subequal, obtuse.

STAM. *Filaments* two, growing to the base of the tube, longer than the corol, thread-form. *Anthers* egg'd.

PIST. *Germ* oblong. *Style* thread-form. *Stigma* pencil-form.

PER. none, unless the calyx.

SEED. one, oblong, in the bottom of the calyx.

Receptacle common, naked.

OBS. *I have not seen the fruit.*

II. TWO

II. TWO FEMALES.

(Digýnia.)

42. ANTHOXANTHUM. * (Yellow-flower.)

Vernal Grass.

CAL. Glume one-flower'd, two-valv'd: the valvelets egg'd, pointed, concave: the interior one larger.

COR. Glume one-flower'd, two-valv'd, the length of the greater calyx-valvelet: each valvelet emitting an awn from the inferior part of the back: one of them jointed.

Nectary two-leav'd, very slender, cylindric: leaflets somewhat egg'd, embracing.

STAM. Filaments two, capillary, very long. Anthers oblong, two-fork'd at both ends.

PIST. Germ oblong. Styles two, thread-form. Stigmas simple.

PER. Glume of the corol grows to the seed.

SEED. one, pointed at both ends, rather columnar.

III. THREE FEMALES.

(Trigýnia.)

43. PÍPER. * Saururus Plum. 12. *Pepper.*

CAL. Spathe none perfect.

Spadix thread-form, very simple, cover'd with the florets.

Perianth. none.

COR. none.

STAM. Filaments none. Anthers two, opposite, at the root of the germ, roundish.

PIST. Germ greater, egg'd. Style none. Stigma tripple, hispid.

PER. Berry roundish, one-cell'd.

SEED. one, globular.

CLASS II.

C L A S S III.

THREE MALES.

(Triandria.)

I. ONE FEMALE.

(Monogýnia.)

- 44. Valériána.
- 45. Ólax.
- 46. Tamaríndus.
- 47. Rúmphia.
- 48. Cneórum.
- 49. Camocládia.
- 1337. Willíchia.
- 50. Melótria.
- 1289. Rótala.
- 51. Ortégia.
- 52. Loeffíngia.
- 53. Polycnémum.
- 54. Hippócratéa.
- 55. Crócus.
- 56. Íxia.
- 57. Gladiólus.
- 58. Antholýza.
- 59. Íris.
- 60. Moráea.
- 1355. Dílatris. S.
- 61. Wachendórfia.
- 62. Commelína.
- 63. Callífia.

- 64. Xýris.
- 65. Schœnus.
- 66. Cypérus.
- 67. Scírpus.
- 1356. Kyllínga. S.
- 1357. Fuiréna. S.
- 68. Erióphorum.
- 69. Nárdus.
- 1358. Pommereúlla. S.
- 70. Lygéum.

II. TWO FEMALES.

(Digýnia.)

- 71. Brobártia.
- 72. Cornucópiæ.
- 73. Sáccharum.
- 74. Phálaris.
- 75. Páspalum.
- 76. Pánicum.
- 77. Phléum.
- 78. Alopecúrus.

79. Mílíum.

79. Mílíum.
 80. Agróftis.
 81. Áira.
 82. Mélica.
 83. Póa.
 84. Bríza.
 85. Uníola.
 86. Dáctylis.
 87. Cynofúrus.
 88. Fefúca.
 89. Brómus.
 90. Stípa.
 91. Avéna.
 1359. Anthiftíria.
 92. Lagúrus.
 93. Arúndo.
 94. Ariftída.
 95. Lólium.
 1360. Rottböllia. S.

96. Élymus.
 97. Secále.
 98. Hórdeum.
 99. Tríticum.

III. *Three FEMALES.*

(*Trigýnia.*)

100. Eriocaúlon.
 101. Móntia.
 102. Proferpináca.
 103. Tripláris.
 104. Holófteum.
 1241. Koenígia S.
 105. Polycárpon.
 106. Mollúgo.
 107. Minuártia.
 108. Quéria.
 109. Lechéa.

THREE MALES.

THREE MALES.

(Triándria.)

I. ONE FEMALE.

(Monogýnia)

44. VALERIANA. * *Tournef.* 52. *Vaill.* A. G.
1722. *Valerianella Tournef.*
Vaill. Valerian.

CAL. Scarcely any. *Margin* above.

COR. *Tube* nectar-bearing on the inferior side, gibbous; *Border* five-cleft, the divisions obtuse.

STAM. three or fewer, awl'd, erect, the length of the corol. *Anthers* roundish.

PIST. *Germ* beneath. *Style* thread-form, the length of the stamens. *Stigma* thickish.

PER. a crust not gaping, deciduous, crown'd.

SEEDS solitary, oblong.

QBS. *A wonderful diversity of the parts of fructification, as to number and figure in the different species is observed in this genus. e. gr. The margin of the Calyx in some is scarcely discernable; in others five-cleft.*

The Tube of the Corol is oblong in some; in others furnished with one honey-bearing spur; in others very short. Border in some equal; in others two-lip'd, with the upper lip two-cleft.

Three Stamens in most; in some two; in others one; in the Siberian species four; in others the sexes are distinct.

The stigma of the Pistil is three-cleft in some; in others end-nick'd; in some globular.

The Pericarp is in some almost none; in others with a thick capsule; in others two-cell'd.

The Seeds are crown'd with a pappus in some; in others there are none; the figure various.

45. OLAX.

45. OLAX. †

- CAL. *Perianth* one-leaved, concave, very short, most intire.
 COR. one-petal'd, funnel-form: *Border* three-cleft, obtuse: the third division deeper.
Nectaries four, round, petioled, shorter than the corol, erect-converging, in the throat of the corol.
 STAM. *Filaments* three, awl'd, alternate with the nectaries, and shorter than them. *Anthers* simple.
 PIST. *Germ* roundish. *Style* thread-form, longer than the *stamens*. *Stigma* headed.
 PER.
 SEED.

46. TAMARINDUS. † *Tournef.* 445. *Jacq.*
Tamarind.

- CAL. *Perianth* four-parted, flat: the *divisions* egg'd, acute, colour'd, deciduous.
 COR. *Petals* three, egg'd, plaited, ascending, expanding, the length of the calyx, leaving a vacant space for a fourth and lowest petal.
Nectary with two bristles placed under the filaments.
 STAM. *Filaments* three, placed together in the vacant sinus of the calyx, awl'd, conjoined beneath, ascending, bow'd towards the corol. *Anthers* egg'd, incumbent.
 PIST. *Germ* oblong, pedicel'd. *Style* awl'd, ascending. *Stigma* thickish.
 PER. *Legume* long, compress'd, cloath'd with a double bark, with pulp between them, one-cell'd.
 SEEDS frequently three, angled, compressed.

47. RUMPFIA.

CAL. *Perianth* one-leaved, three-cleft, erect, flat.

COR. *Petals* three, oblong, obtuse, equal.

STAM. *Filaments* three, awl'd, the length of the corol. *Anthers* small.

PIST. *Germ* roundish. *Style* awl'd, the length of the stamens. *Stigma* three-corner'd.

PER. *Drupe* leathery, top-shape, three-furrow'd.

SEED. *Nut* egg'd, intire, three-cell'd.

48. CNEORUM. + *Chamælea Tournef.* 421.

CAL. *Perianth* very small, three-tooth'd, permanent.

COR. *Petals* three, oblong, lance-linear, concave, erect, equal, deciduous.

STAM. *Filaments* three, awl'd, shorter than the corol. *Anthers* small.

PIST. *Germ* obtuse, three-corner'd. *Style* erect, firm, the length of the stamens. *Stigma* three-cleft, expanding.

PER. *Berry* dry, globe-three-lobed, three-cell'd.

SEEDS solitary, round.

49. CAMOCLADIA. *Brown. Jacq.*

CAL. *Perianth* one-leaved, three-parted, expanding, colour'd, the divisions roundish.

COR. *Petals* three, egg'd, acute, flat, most expanding.

STAM. *Filaments* three, awl'd, shorter than the corol. *Anthers* roundish, incumbent.

PIST. *Germ* egg'd. *Style* none. *Stigma* obtuse, simple.

PER. *Drupe* oblong, curved, marked at the top with three spots.

SEED. *Nut* membranous, the figure of the drupe.

QBS. The corol is said by the author to be three-parted. *Syst. Veg. Murray. p. 74. R.*

1337. WILLICHIA. *Auth. D. Mutis.*

- CAL.** *Perianth* one-leaved, four-cleft, permanent: the divisions egg'd, acute, expanding.
- COR.** one-petal'd, wheel'd, twice as long as the calyx. *Tube* almost none. *Border* four-cleft, flat: the divisions roundish, convex.
- STAM.** *Filaments* three, inserted (except the lowest) into the interstices of the border, and shorter than it. *Anthers* roundish, erect, two-cell'd.
- PIST.** *Germ* above, roundish, compressed. *Style* thread-form, the length of the stamens, declining towards the lowest interstice of the border. *Stigma* obtuse.
- PER.** *Capsule* roundish, acute, with a compressed point, two-cell'd, two-valved, the partition opposite.
- SEEDS.** many, roundish, minute. *Receptacle* globular, with two hemispheres.

50. MELÓTHRIA. *

- CAL.** *Perianth* one-leaved, bell'd, bellied, five-tooth'd, above, deciduous.
- COR.** one-petal'd, wheel'd. *Tube* the length of the calyx, growing every way to the calyx. *Border* five-parted, flat, with divisions broader outwardly, very obtuse.
- STAM.** *Filaments* three, conic, inserted into the tube of the corol, and the length of it. *Anthers* twin, roundish, compress'd.
- PIST.** *Germ* egg-oblong, pointed, somewhat beneath. *Style* cylindric, the length of the stamens. *Stigmas* three, thickish, oblong.
- PER.** *Berry* egg-oblong, three-parted, without partitions internally.
- SEEDS.** numerous, oblong, compress'd.
- OBS.** *I once saw two male-flowers, besides the hermaphrodite ones. M. The Calyx is said to be five-cleft, and the Berry three-cell'd in Syst. Veg. R.*

1289. ROTALA.

CAL. *Perianth* one-leaved, tubular, membranous, three-tooth'd, permanent.

COR. none.

STAM. *Filaments* three, capillary, the length of the calyx. *Anthers* roundish.

PIST. *Germ* above, egg'd. *Style* thread-form. *Stigma* three-cleft.

PER. *Capsule* egg'd, rather three-corner'd, included in the calyx, three-cell'd, three-valv'd.

SEEDS. very numerous, roundish.

51. ORTEGIA. † P. *Lafling*.

CAL. *Perianth* five-leaved, erect: the leaflets oval, with membranous margins, permanent.

COR. none.

STAM. *Filaments* three, awl'd, shorter than the calyx. *Anthers* linear, compress'd, shorter than the filaments.

PIST. *Germ* egg'd, three-sided upwards. *Style* thread-form, almost the length of the calyx. *Stigma* head-obtuse

PER. *Capsule* egg'd, three-corner'd upwards, one-cell'd, three-valved at top.

SEEDS very numerous, most minute, oblong, acute at both ends.

52. LOEFLINGIA. *

CAL. *Perianth* five-leav'd, erect: the leaflets lanced, marked on both sides the base with a toothlet; pointed, permanent.

COR. *Petals* five, very small, oblong-egg'd, converging into a globe, round.

STAM. *Filaments* three, the length of the corol. *Anthers* roundish, twin.

PIST. *Germ* egg'd, three-corner'd. *Style* thread-form, a little broader upwards. *Stigma* obtusish.

PER. *Capsule* egg'd, nearly three-corner'd, one-cell'd, three-valved.

SEEDS. (very) numerous, egg-oblong.

53. POLY

53. POLYCNÉMUM. * (*Many-legs.*)

CAL. *Perianth* with three leaflets, lanced, erect; acute, permanent.

COR. *Petals* five, calyx-like.

STAM. *Filaments* three, capillary, shorter than the calyx. *Anthers* obtuse.

PIST. *Germ* roundish. *Style* two-parted, the length of the stamens. *Stigmas* obtuse.

PER. scarcely any, except a very thin membrane.

SEED one.

54. HIPPOCRATEA. *Jacq.* 9. *Coa Plum.* 35.

CAL. *Perianth* one-leaved, expanding, five-parted, very small; colour'd, deciduous: with leaflets roundish, most expanding, the *divisions* obtuse, larger than the corol.

COR. *Petals* five, egg'd, rather two-celled at the tops.

STAM. *Filaments* three, awl'd, erect, the length of the corol. *Anthers* broad, with a transverse furrow.

PIST. *Germ* oval. *Style* the length of the stamens. *Stigma* obtuse.

PER. *Capsules* three, inverse-hearted, compressed, large, with *cells* two-valved: the *valvelets* keel-compressed.

SEEDS five, oblong, with a membranous wing.

55. CRÓCUS. * *Tournef.* 183. 184. *Safforn.*

CAL. *Spathe* one-leaved.

COR. *Tube* simple, long. *Border* six-parted, erect: the *divisions* egg-oblong, equal.

STAM. *Filaments* three, awl'd, shorter than the corol. *Anthers* arrow'd.

PIST. *Germ* beneath, roundish. *Style* thread-form, the length of the stamens. *Stigmas* three, convolute, saw'd.

PER. *Capsule* roundish, three-lobed, three-cell'd, three-valved.

SEEDS numerous, round.

C

56. IX-

56. IXIA. *

- CAL. *Spathes* two-valved, oblong, permanent, distinguishing the germs.
 COR. *Petals* six, oblong, equal, lanced.
 STAM. *Filaments* three, awl'd, shorter than the corol, equal in situation. *Anthers* simple.
 PIST. *Germ* beneath, egg'd, three-sided. *Style* three-parted, erect, the length of the stamens. *Stigmas* three, erectish-expanded.
 PER. *Capsule* somewhat egg'd, three-sided, three-cell'd, (the cells compressed) three-valved.
 SEEDS roundish.

57. GLADIOLUS. (*Dagger.*) * *Tournef.* 190.
Cornflag.

- CAL. *Spathes* two-valved.
 COR. six-parted, grinning. *Petals* oblong, obtuse, whereof the three nearest superior ones converging, but the inferior ones expanding, all conjoin'd by claws into a short incurved tube.
 STAM. *Filaments* three, awl'd, inserted in the alternate interstices of the petals, all ascending under the converging petals. *Anthers* oblong.
 PIST. *Germ* beneath. *Style* simple, the length of the stamens. *Stigma* three-cleft, concave.
 PER. *Capsule* oblong, bellied, rather three-corner'd, obtuse, three-cell'd, three-valved.
 SEEDS numerous, roundish, involved in a calyptr.

58. ANTHOLÝZA. (*Mad-flower.*)

- CAL. *Spathes* two-valved, alternate, imbricated, distinguishing the flowers, permanent.
- COR. *Petal* one, gradually dilated from the *Tube* to the compressed grinning mouth. *Upper lip* straight, slender, very long: furnished with two short *divisions* at the base; *Under lip* shorter, three-cleft.
- STAM. *Filaments* three, long, slender, under the upper lip. *Anthers* acute.
- PIST. *Germ* beneath. *Style* thread-form, the situation and length of the superior *stamens*. *Stigma* three-cleft, capillary, reflected.
- PER. *Capsule* roundish, three-corner'd, three-cell'd, three-valved.
- SEEDS numerous, triangular.
- OBS. *This genus (too nearly allied to the Gladiolus) differs in the corols: some having an inflated, compressed throat; others the corol funnel-form; others the under lip very short; others having the alternate divisions abbreviated; others the corol salver-form: the border six-parted, equal.*

59. ÍRIS. * *Tournef.* 186. 187. 188. *Xiphion* T. 198. *Sifyrinchium* T. *Hermodyctylus* T. (*Flower de Luce.*)

- CAL. *Spathes* two-valved, distinguishing the flowers, permanent.
- COR. Six-parted. *Petals* oblong, obtuse: the three exterior ones reflected: three interior erect, acuter: all conjoined with claws.
- STAM. *Filaments* three, awl'd, incumbent on the reflected petals. *Anthers* oblong, straight, depress'd.
- PIST. *Germ* beneath, oblong. *Style* simple, very short. *Stigma* very large, three-parted, the *divisions* counterfeiting the petals, broad, reflected, depressing the *stamens* and alternate petals, the tops two-cleft.
- PER. *Capsule* oblong, angular, three-cell'd, three-valved.
- SEEDS numerous, large.
- OBS. *The Nectary in some 1-9. is a longitudinal villous line engraved on the base of the reflected petals; in others three honey-bearing dots externally at the base of the flower. Capsule in some three-corner'd, in others six-corner'd.*
- Xiphium* T. 20. 21. with root bulbous, leaves awl'd.
- Sifyrinchium* T. 2 with root bulbous double, one placed on the other.
- Hermodyctylus* T. 3 with root tuberous; leaves four-corner'd.
- Iris* T. with root fleshy oblong creeping; leaves sword-form.

60. MORÆA. *Mill. Diēt.*

CAL. *Spathes* two-valved.

COR. six-petal'd, the three interior *Petals* expanding, the others like the Iris.

STAM. *Filaments* three, short. *Anthers* oblong.

PIST. *Germ* beneath. *Style* simple. *Stigmas* three, two-cleft.

PER. *Capsule* three-corner'd, three-furrow'd, three-celled.

SEEDS very numerous, round.

1355. DILATRIS. *Thunb. S.*

CAL. none.

COR. six-petal'd, above. *Petals* egg-lanced, concave, erect-expanding, equal, shaggy outwardly, permanent.

STAM. *Filaments* three, awl'd, shorter than the corol: the *third* less than the rest. *Anthers* egg'd, lanced, two-furrow'd: the *third* larger on the lesser filament.

PIST. *Germ* beneath. *Style* thread-form. *Stigma* simple, obtuse.

PER. *Capsule* globular, very shaggy, three-valved, three-cell'd.

SEEDS solitary in each cell, orbicular, compressed, smooth, perpendicular.

61. WACHENDÖRFIA. † *Burm.*

CAL. *Spathes* two-valved.

COR. six-petal'd: *Petals* oblong, unequal: the three highest erecter; the three inferior ones spreading.

Nectary with two bristles at the internal sides of the superior petal.

STAM. *Filaments* three, thread-form, declining, shorter than the corol. *Anthers* incumbent.

PIST. *Germ* above, roundish, three-corner'd. *Style* thread-form, declining. *Stigma* simple.

PER. *Capsule* rather egg'd, three-sided, obtuse, three-cell'd, three-valved.

SEEDS solitary, shaggy.

62. COMMELINA. * Plum. 38. Zanonía
Plum. 38.

CAL. *Spathe* hearted, converging, compress'd, very large, permanent.

COR. *Petals* six, of which the *three exterior* small, egg'd, concave, counterfeiting a perianth; but the *three interior* ones alternate, very large, roundish, colour'd.

Nectaries three, counterfeiting the stamens, sitting on their proper filaments, cross-form, horizontal.

STAM. *Filaments* three, awl'd, reclined, agreeing in figure and compass with the filaments of the nectary, but inferior to them. *Anthers* egg'd.

PIST. *Germ* above, roundish. *Style* awl'd, revolute, the length of the stamens. *Stigma* simple.

PER. *Capsule* naked, subglobular, three-furrowed, three-cell'd, three-valved.

SEEDS two, angular.

OBS. *The Number is different; hence if there are four small equal petals you may exclude one third from the number of the rest of the parts, then add one for the nectaries and you will have the number required.*

The three small exterior petals of Zanonía remain in form of a Perianth; the three interior ones are equal.

63. CALLÍSIA. Loeßling. Hapalanthus Jacq. 9.

CAL. *Perianth* three-leaved: the leaflets line-lanced, keel'd, erect, permanent.

COR. *Petals* three, lanced, pointed, erect, spreading at top, the length of the calyx.

STAM. *Filaments* three, capillary, longer than the corol, dilated at top with a roundish fold.

Anthers double, globular, affix'd to the folds on the interior side.

PIST. *Germ* above, oblong, compress'd. *Style* capillary, the length of the stamens. *Stigmas* three, expanding, pencil-form.

PER. *Capsule* egg'd, compress'd, acute, two-cell'd, two-valved: with valvelets contrary.

SEEDS two, roundish.

OBS. *Allied to Commelina.*

64. XYRIS. † Gronov.

- CAL. *Spike* roundish: with *Scales* roundish, concave, imbricated, distinguishing the flowers.
Glume two-valved, small: with *valvelets* boat-shape, compressed, bow'd, acute, converging.
- COR. *Petals* three, flat, expanding, large, notch'd: with *claws* narrow, the length of the calyx.
- STAM. *Filaments* three, thread-form, shorter than the corol. *Anthers* erect, oblong.
- PIST. *Germ* above, roundish. *Style* thread-form. *Stigma* tripple.
- PER. *Capsule* roundish, three-cell'd, three-valved.
- SEEDS very numerous, most minute.

65. SCHOENUS. * *Cyperella* Mich. 31. *Pseudo-Cyperus* Mich. 31. *Melanoschoenus*. Mich. gen. 31.
Bog-rush.

- CAL. *Glume* common, many-flower'd, two-valved, large, erect, attenuated, permanent.
- COR. *Petals* six, lanced, acute, converging, permanent, unequal in situation, and somewhat imbricated: the exterior ones shorter.
- STAM. *Filaments* three, capillary. *Anthers* oblong, erect.
- PIST. *Germ* egg-three-sided, obtuse. *Style* bristly, the length of the corol. *Stigma* three-cleft, slender.
- PER. none. *Corol* loosely converging, emitting the mature seed.
- SEED one, rather egg'd, thicker above, obscurely three-corner'd, glossy.
- OBS. *There are Species, in which some very minute bristles growing from the proper receptacle surround the seed.*
In the the System of Vegetables p. 84. this character of the Genus is given.
- CAL. *Glume* chaffy, one-valved, collected.
- COR. none.
- SEED one, roundish between the glumes. R.

66. CY-

66. CYPÉRUS. * *Mich.* 31. *Tournef.* 299.

CAL. *Spike* two-rank-wise imbricated: the *Scales* egg'd, keel'd, flat-inflected, distinguishing the flowers.

COR. none.

STAM. *Filaments* three, very short. *Anthers* oblong, furrow'd.

PIST. *Germ* very small. *Style* thread-form, very long. *Stigmas* three, capillary.

PER. none.

SEED one, three-sided, pointed, destitute of hairs.

67. SCÍRPUS. * *Mich.* 31. *Tournef.* 300. *Scirpo-cyperus.* *Mich.* 31. *Club-Rush.*

CAL. *Spikes* every way imbricated: the *Scales* egg'd, flat-inflected, distinguishing the flowers.

COR. none.

STAM. *Filaments* three, sometimes longer. *Anthers* oblong.

PIST. *Germ* very small. *Style* thread-form, long. *Stigmas* three, capillary.

PER. none.

SEED one, three-sided, pointed, furnished with hairs shorter than the calyx.

OBS. *These hairs of the seed are in some annex'd to it at the top, in others at the base.*

In the system of Vegetables the character is thus deliver'd.

CAL. *Glume* chaffy, imbricated on all sides.

COR. none.

SEED one, beardless. *R.*

1356. KYLLINGA. *Rottböll. gram. Sup. Plant.*
*p. II. Thunb. fl. jap.**Ament* imbricated: the *Scales* oblong, separating the flowers.*CAL.* two-glumed. *Glumes* unequal, compress'd, lanced, channel'd, acute, much shorter than the corol: *one* shorter.*COR.* compress'd, longer than the calyx, two valved: the *valves* keel'd, unequal, divaricated at top: *one* greater, lanced, very acute, complicated, embracing the margin of the other: the *other* shorter, narrower.*STAM.* *Filaments* three, awl'd, flat. *Anthers* linear, erect.*PIST.* *Germ* inverse-egg'd, flattened, gibbous on one margin. *Style* one, thread-form. *Stigmas* two or three, capillary.*PER.* none, but the corol-glumes preserving the seed to maturity.*SEED* oblong, three-sided, destitute of hairs.1357. FUIRÉNA. *Rottböll. gram. S.**Ament* oblong, columnar, imbricated. *Scales* channel'd, wedge-form, three-keel'd, awn'd at top. *Awn* columnar, straight, shorter than the glume. *Flower* between each scalelet solitary, very small, sitting on a tubercle.*CAL.* none.*COR.* *Glume* three-valved: the *valvelets* petal-form, inverse-hearted, submembranous, flat, most intire, terminated by an incurved thread in the end-nick of the top.*STAM.* *Filaments* three, linear, inserted on the receptacle between the corol-glumes. *Anthers* linear, erect.*PIST.* *Germ* large, three-sided. *Style* thread-form. *Stigmas* two, revolute.*PER.* none, except the wither'd corol including the seed.*SEED* three-sided, naked, destitute of hairs.68. ERIOPHORUM. * (*Wool-bearer.*) *Lina-*
grostis. Mich. 31.
*Tournef. Cotton-Grass.**CAL.* *Spike* every way imbricated: the *Scales* egg-oblong, flat-inflected, membranous, loose, pointed, distinguishing the flowers.*COR.* none.*STAM.* *Filaments* three, capillary. *Anthers* erect, oblong.*PIST.* *Germ* very small. *Style* thread-form, the length of the scale of the calyx. *Stigmas* three, longer than the style, reflected.*PER.* none.*SEED* three-sided, pointed, furnished with hairs longer than the spike.

69. NARDUS. * *Matt-Grass.*

CAL. none.

COR. two-valved : the *exterior valvelet* lance-linear, long, dagger'd, embracing the less with its belly; *lesser valvelet* interior, linear, dagger'd.

STAM. *Filaments* 3, capillary, shorter than the corol. *Anthers* oblong.

PIST. *Germ* oblong. *Style* one, thread-form, long, pubescent. *Stigma* simple.

PER. *Corol* grows to the seed, not gaping.

SEED one, cover'd, line-oblong, pointed at both ends, narrower above.

1358. POMMEREÛLLA. *Gram. gen. p.* 31. S.

CAL. *Glume* top-shape, three-flower'd or four-flower'd, two-valved : the *Valvelets* equal, wedge-form, divaricated, at the base : *Claw* incurved, linear, gradually dilated, four-cleft. *Divisions* dilated into an orb and involving the florets, unequal : the *lateral ones* larger, lanced, acute : the *interior or intermediate ones* once and a half shorter, awl'd, awn'd. The dorsal awn inserted between the lesser divisions, straight, erect, longer than the valvelets.

COR. *Glume* two-valved : the *valvelets* unequal : the *exterior* very like the calyx-ones, also awn'd : the *interior* one very short, most simple or undivided, egg'd, flat, awnless.

STAM. *Filaments* three, very short. *Anthers* linear, the length of the valvelets.

PIST. *Germ* one, linear. *Style* simple. *Stigmas* two, villous on the side.

PER. *Corol* unchanged, containing the seed to maturity, after which it gapes and emits it.

SEED one, oblong, flat on the interior side, convex on the exterior, pellucid, very smooth.

70. LYGÉUM. * *Loefling. Mat-weed.*

CAL. *Spathe* one-leaved, convolute, egg'd, pointed, gaping downwards, permanent.

COR. two, sitting on the germ, equal all ways. *Glume* of the *Corolet* two-valved : the *exterior valvelet* convex, oblong, acute, less ; the *interior valvelet* linear, narrow, twice as long, two-cleft, acute.

STAM. (to each) *Filaments* 3, very slender, flattish, long. *Anthers* linear.

PIST. *Germ* common to both corols, shaggy, beneath. *Style* simple, flattish, long. *Stigma* simple.

PER. *Nut* oblong, very shaggy, two-cell'd, not gaping.

SEEDS solitary, line-oblong, convex on one side, flattish on the other.

II. TWO

II. TWO FEMALES.

(Digýnia.)

71. BOBÁRTIA. †

CAL. one-flower'd, imbricated, with *Glumes* numerous, cylindric : whereof the *exterior* ones most numerous, short, one-valved ; the *interior ones* equal, longer, two-valved : the exterior valvelet largest ; the interior one linear, lop'd, of the same length.

COR. *Glume* two-valved, very thin, shorter than the calyx, above, withering.

STAM. *Filaments* three, capillary, very short. *Anthers* oblong.

PIST. *Germ* short, nearly beneath. *Styles* two, thread-form. *Stigmas* simple.

PER. none. *Calyxes* unchanged.

SEED one, oblongish.

OBS. It is very different from its kindred in the numerous glumes of the calyx, and in the single flower above.

72. CORNUCÓPIÆ. * (Horn of Plenty.) Cornucopioides Scheuch. 3.

CAL. *Perianth* common one-leaved, funnel-form, very large : the mouth notched, obtuse, erect-expanding ; many-flower'd. *Glume* one-flower'd, two-valved : the *valvelets* oblong, obtusely pointed, equal.

COR. one-valved, very like the valvelet of the glume of the calyx in figure size and situation.

STAM. *Filaments* three, capillary. *Anthers* oblong.

PIST. *Germ* top-shape. *Styles* two, capillary. *Stigmas* tendril'd.

PER. none. the *Corol* including the seed.

SEED one, top-shape, convex on one side, flat on the other.

OBS. Too nearly allied to alopecurus. Foxtail.

73. SAC-

73. SACCHARUM. † Sugar-Cane.

CAL. none, but wool longer than the flower, including one flower.
 COR. two-valved: the *Valvelets* oblong-lanced, pointed, erect, concave, equal, awnless.

STAM. *Filaments* three, capillary, the length of the corol. *Anthers* oblongish.

PIST. *Germ* awl'd. *Styles* two, tendril'd. *Stigmas* simple.

PER. none. The *Corol* invests the seed.

SEED one, oblong, narrow, pointed.

OBS. *It differs from the reed in the want of a calyx.*

Both valvelets of the Corol are awn'd in Sacharum spicatum (spik'd Sugar.) R. another specimen given as Sugar-Cane was thus described.

CAL. *Glume* two-valved, one-flower'd: *valvelets* lanced, involute, bearded at the base.

COR. *Glume* two-valved, shorter, obtusish: dorsal awn twisted.

PIST. *Germ* oblong. *Styles* two, feather'd. *Stigmas* feathery. R.

74. PHALARIS. * Homalocenchrus. Hall. belu.
p. 1411. Canary Grass.

CAL. *Glume* one-flowered, two-valved, compress'd, obtuse: the *Valvelets* boat-shape, compress'd, keel'd, obtuse above, the margins straight, parallelly converging.

COR. two-valved, less than the calyx: the *exterior valvelet* oblong, pointed, convolute; the *interior* one less.

STAM. *Filaments* three, capillary, shorter than the calyx. *Anthers* oblong.

PIST. *Germ* roundish. *Styles* two, capillary. *Stigmas* villous.

PER. corol grows round the seed like a crust, nor gapes.

SEED one, cover'd, smooth, diminishing from a sphere to a point at both ends.

OBS. *Homalocenchrus has no petals, R.*

75. PÁSPALUM. *

CAL. *Glume* one-flower'd, two valved, membranous : valvelets equal, suborbicular, flat-concave : the interior one placed more outwardly.

COR. *Glume* two-valved, scarcely the size of the calyx : the valvelet roundish, cartilaginous, convex without, inflected at the base.

STAM. *Filaments* three, capillary, the length of the glume. *Anthers* egg'd.

PIST. *Germ* roundish. *Styles* two, capillary, the length of the flower. *Stigmas* pencil-form, hairy, colour'd.

PER. *Glume* permanent, closed, growing to the seed.

SEED one, roundish, compress'd, convex on one side.

OBS. *Paspalum virgatum*, (twiggy,) has the exterior valvelet of the calyx very short. R.

76. PÁNICUM. * *Panic-Grass.*

CAL. *Glume* one-flower'd, three-valved : the valvelets rather egg'd : the third very small, placed on the back of the other.

COR. two-valved : the *Valvelets* rather egg'd : one less, flatter.

STAM. *Filaments* three, capillary, short. *Anthers* oblong.

PIST. *Germ* roundish. *Styles* two, capillary. *Stigmas* feathery.

PER. the *Corol* grows to the seed, not gaping.

SEED one, cover'd, roundish, flattish on one side.

OBS. *Panicum sanguinale* (bloody) and *Dactylon* differ from their kindred in a two-valved calyx and in other circumstances. Whence Haller constructed a new genus call'd *Digitaria*. Hall. helv. tom. 2. p. 244. R.

77. PHLÉUM. * *Cats'-tail.*

CAL. *Glume* one-flower'd, two-valved, oblong, linear, compress'd, gaping at the two-piked top : the *valvelets* straight, concave, compress'd, embracing, equal, lop'd, dagger'd at the top of the keel.

COR. two-valved, shorter than the calyx : the exterior *Valvelet* embracing the less interior one.

STAM. *Filaments* three, capillary, longer than the calyx. *Anthers* oblong, two-fork'd.

PIST. *Germ* roundish. *Styles* two, capillary, reflected. *Stigmas* feathery.

PER. none. *Calyx* and *Corol* including the seed.

SEED one, roundish.

78. ALO-

78. *ALOPECURUS*. * *Foxtail*.

- CAL. *Glume* one-flower'd, two-valved: the *valvelets* egg-lanced, concave, compress'd; equal.
- COR. one-valved: the *valvelet* concave, the length of the calyx. *Awn* long, inverted on the back of the valvelet towards the base.
- STAM. *Filaments* three, capillary. *Anthers* two-fork'd at both ends.
- PIST. *Germ* roundish. *Styles* two, tendril'd, reflected, longer than the calyx. *Stigmas* simple.
- PER. *Corol* cloathing the seed.
- SEED one, roundish, cover'd.
- OBS. *A. indicus*, *indian Foxtail*, has an additional *valvelet* to the flower. *A hordei-formis* (*barley-form Foxtail*,) has a two valved corol. R.

79. *MILIUM*. * *Tournef.* 298. *Millet*.

- CAL. *Glume* one-flower'd, two-valved: the *valvelets* egg'd, pointed, subequal.
- COR. two-valved, less than the calyx: the *valvelets* egg'd: one of them less.
- STAM. *Filaments* three, capillary, very short. *Anthers* oblong.
- PIST. *Germ* roundish. *Styles* two, capillary. *Stigmas* pencil-form.
- PER. seed of the *Corol* cloathed, very smooth.
- SEED one, cover'd, roundish.

80. *AGRÓSTIS*. *Bent*.

- CAL. *Glume* one-flower'd, two-valved, pointed, rather less than the corol.
- COR. two-valved, pointed; one larger.
- STAM. *Filaments* three, capillary, longer than the corol. *Anthers* fork'd.
- PIST. *Germ* roundish. *Styles* two, reflected, villous. *Stigmas* hispid longitudinally.
- PER. *Corol* growing to the seed, not gaping.
- SEED one, roundish, pointed at both ends.
- OBS. *Capillaris* (*capillary Bent*) has a single petal, and is therefore a species of *alopecurus*. Scop. R.

81. AÏRA. *Hair-grass.*

CAL. *Glume* two-flower'd, two-valved: the *Valvelets* egg-lanced, pointed, equal.

COR. two-valved: *Valvelets* very similar to the calyx. No rudiment of a flower between the florets.

STAM. *Filaments* three, capillary, the length of the flower. *Anthers* oblong, fork'd at both ends.

PIST. *Germ* egg'd. *Styles* two, bristly, expanding. *Stigmas* pubescent.

PER. none. The including *Corol* grows to the seed.

SEED rather egg'd, cover'd.

OBS. *The number of the florets varies.* R.

82. MÉLICA. * *Melic-grass.*

CAL. *Glume* two-flower'd, two-valved: the *Valvelets* egg'd, concave, subequal.

COR. two-valved: the *Valvelets* egg'd, awnless, one concave; another flat. A *Corpuscle* between the florets.

STAM. *Filaments* three, capillary, the length of the flower. *Anthers* oblong, two-fork'd at both ends.

PIST. *Germ* top-egg'd. *Styles* two, bristly, expanding. *Stigmas* oblong, villous.

PER. none. *Corol* includes the seed, emits it.

SEED one, egg'd.

OBS. *A peduncled Corpuscle between the florets (the rudiments of a flower) affords an essential character: this consists of two rudiments or florets, lop'd, alternate: the Glumes convolute pellucid. This also varies in the number of florets.* R.

83. PÓA. * *Meadow-grass.*

CAL. *Glume* many-flower'd, two-valved, awnless, collecting the flowers into a two-rank'd egg-oblong spike: the *Valvelets* egg'd, pointed.

COR. two-valved: the *Valvelets* egg'd, pointed, concave, compress'd, a little longer than the calyx, the margin rather parch'd.

STAM. *Filaments* three, capillary. *Anthers* two-fork'd.

PIST. *Germ* roundish. *Styles* two, reflected, villous. *Stigmas* similar.

PER. *Corol* grows to the seed, not gaping.

SEED one, oblong, pointed, compress'd at both ends, covered.

OBS. *The flowers of Poa eragrostis are without a parched margin, other species have a two-flower'd calyx, others a three or four flower'd one.* R.

84. BRÏ-

84. BRIZA * *Quake-grass.*

- CAL. *Glume* many-flower'd, two-valved, expanding, collecting the flowers into a hearted two-rank'd spike: the *Valvelets* hearted, concave, equal, obtuse.
- COR. two-valved: the *inferior valvelet* the size and figure of the calyx: the *superior one* very small, flat, roundish, closing the belly of the other.
- STAM. *Filaments* three, capillary. *Anthers* oblong.
- PIST. *Germ* roundish. *Styles* two, capillary, recurved. *Stigmas* feathery.
- PER. *Corol* unchanged, contains, gapes, drops the seed.
- SEED one, roundish, compress'd, very small.

85. UNIOLA. †

- CAL. *Glume* many-flower'd, six-valved; the *Valvelets* two-rank-wise, imbricated, somewhat awl'd, compress'd, boat-shape, keel'd, one closing the other: the last pair many-flower'd, containing the *spike* egg'd, flat-compress'd, acute on the margin.
- COR. *Glume* two-valved: the *valvelets* lance-compress'd, similar to the calyx-ones, the interior valvelet rather supereminent.
- STAM. *Filaments* three, capillary. *Anthers* oblong, linear.
- PIST. *Germ* conic. *Styles* two, erect, simple. *Stigmas* pubescent.
- PER. none; the *Corol* includes the seed.
- SEED one, egg-oblong.

86. DACTYLIS. (*Fingers*) * Roy. *lugdb.* 56. *Cock's-foot.*

- CAL. *Glumes* compress'd, one-rank'd, acute: one-valvelet longer than the floret, keel'd; the other shorter than it.
- COR. *Glume* compress'd, oblong, acute: one valvelet within the greater one of the calyx, longer, keel'd.
- STAM. *Filaments* three, capillary, the length of the corol. *Anthers* two-fork'd.
- PIST. *Germ* top-shape. *Styles* two, capillary, expanding, villous. *Stigmas* simple.
- PER. none. The *Corol* including, dropping the seed.
- SEED solitary, depress'd on one side, convex on the other, naked.
- Obs. *There are some species with a one-flower'd calyx, others with 3, 4, and many-flower'd ones.*

87. CY-

87. CYNOSÚRUS. * *Dog's-tail.*

CAL. The partial *Involucre* lateral, often three-leaved; large. *Glume* many-flower'd; two-valved; the *valvelets* linear, pointed, equal.

COR. two-valved; the *exterior one* concave longer; the *interior one* flat, awnless.

STAM. *Filaments* three, capillary. *Anthers* oblong.

PIST. *Germ* top-shape. *Styles* two, villous, reflected. *Stigmas* simple.

PER. none. The *Corol* straitly inclosing the seed, not gaping.

SEED one, oblong, pointed at both ends.

OBS. The *Involucres* in most are feather-cleft or comb-form. The number of *florets* is various in the various species. R.

88. FESTÚCA. * *Fescue.*

CAL. *Glume* many-flower'd, two-valved, erect, containing the *florets* in a slender spike: the *valvelets* awl'd, pointed: the inferior one less.

COR. two-valved; the *inferior valvelet* larger, the figure of the calyx, surpassing the calyx in size, columnarish, pointed, terminating in a dagger.

STAM. *Filaments* three, capillary, shorter than the corol. *Anthers* oblong.

PIST. *Germ* top-shape. *Styles* two, short, reflected. *Stigmas* simple.

PER. The *Corol* very straitly closed, adjoined, not gaping.

SEED one, slender-oblong, most acute at both ends, longitudinally marked with a furrow.

89. BRÓMUS. * *Mont. 32. Ægilops. Dill. gen. 3. Brome-grass.*

CAL. *Glume* many-flower'd, two-valved, expanding, collecting the *florets* into a spike: the *valvelets* egg-oblong, pointed, awnless: the inferior one less.

COR. two-valved: the *inferior valvelet* larger, the size and figure of the calyx, concave, obtuse, two-cleft; emitting a straight *awn* below the top; the *superior valvelet* lanced, small, awnless.

STAM. *Filaments* three, capillary, shorter than the corol. *Anthers* oblong.

PIST. *Germ* top-shape. *Styles* two, short, reflected, villous. *Stigmas* simple.

PER. The *Corol* very straitly closed, adjoined, not gaping.

SEED one, oblong, covered, convex on one side, furrow'd on the other.

90. STIPA. * Feather-grass.

CAL. one-flower'd, two-valved, loose, pointed.

COR. two-valved: the *exterior valvelet* terminated at top by an *Awn* very long, twisted, jointed at base, straight; the *interior valvelet* the length of the exterior one, awnless, linear.

STAM. *Filaments* three, capillary. *Anthers* linear.

PIST. *Germ* oblong. *Styles* two, shaggy, united at the base. *Stigmas* pubescent.

PER. *Glume* adjoined.

SEED one, oblong, cover'd.

OBS. It is distinguished by the *Awn* of the *Corol-glume*, jointed at the top of the *Glume*.

91. AVENA. * Tournef. 267. Oat.

CAL. *Glume* more frequently many-flower'd, two-valved, loosely collecting the flowers: the *valvelets* lanced, acute, bellied, loose, large, awnless.

COR. two-valved: the *inferior valvelet* harder than the calyx, the size of the calyx, columnarish, bellied, pointed at both ends, emitting from the back an *Awn* spirally twisted, reflected as if with a joint.

STAM. *Filaments* three, capillary. *Anthers* oblong, two-forked.

PIST. *Germ* obtuse. *Styles* two, reflected, hairy. *Stigma* simple.

PER. *Corol* most firmly closed, adjoined, not gaping.

SEED one, slender-oblong, pointed at both ends, marked with a longitudinal furrow.

OBS. *Awn* from the back of the *corol* jointed, intwisted, constitutes the essential character.

1359. ANTHISTÍRIA. *Gram. gen. p 35. S.*

CAL. *Glume* four-valved, three-flower'd or four-flower'd: the *valvelets* equal, oblong, flat, obtusish, leathery, erect-expanding, papillous at top: the *papils* hairy: the hermaphrodite floret sessile: the *male florets* pedicel'd, many in the same calyx, very like the hermaphrodite one.

COR. *Glume* two-valved: *Valvelets* lanced, acute, awnless: the *exterior* one larger.

STAM. *Filaments* three, short, thread-form. *Anthers* oblong, erect.

PIST. *Germ* oblong, from whose base a twisted awn. *Styles* two. *Stigmas* club'd, hairy.

PER. none, except a closed calyx.

SEED oblong, smooth, plough'd with a furrow.

OBS. *At the first view it is distinguished from all the known genera of grasses by its four-valved calyx; for the division of the calyx is very essential in forming the character of grasses*

92. LAGÚRUS. * *Hares-tail.*

CAL. *Glume* one-flower'd, two-valved: *Valvelets* long, linear, spreading, very slender, each ending in a villous awn.

COR. *Glume* two-valved, thicker than the calyx: the *exterior valvelet* longer, terminated by *two* small straight awns; a *third awn* from the middle of the back of the same valvelet, reflex-twisted, the *interior valvelet* small, pointed.

STAM. *Filaments* three, capillary. *Anthers* oblong.

PIST. *Germ* top-shape. *Styles* two, bristly, hairy. *Stigmas* simple.

PER. none. The *Corol* adjoin'd to the seed.

SEED solitary, oblong, cover'd, awn'd.

93. ARÚNDÓ. * Scheuch. 3. 14. 3. Reed.

CAL. *Glume* one (or) many-flower'd, two-valved, erect : the *valvelets* oblong, pointed, awnless : one shorter.

COR. two-valved : the *valvelets* the length of the calyx, oblong, pointed, from the base of which wool almost the length of the flower arises.

STAM. *Filaments* three, capillary. *Anthers* two-fork'd at both ends.

PIST. *Germ* oblong. *Styles* two, capillary, reflected, villous. *Stigmas* simple.

PER. *Corol* grows to the seed, not gaping.

SEED one, oblong, pointed at both ends, furnished with a long papus at the base.

94. ARISTÍDA. †

CAL. *Glume* two-valved, awl'd, the length of the corol, one-flower'd.

COR. *Glume* one-valved, longitudinally converging, shaggy at the base, terminated by three awns, subequal, spreading.

STAM. *Filaments* three, capillary. *Anthers* oblong.

PIST. *Germ* top-shape. *Styles* two, capillary. *Stigmas* villous.

PER. *Glume* converging, involving, gaping.

SEED one, thread-form, the length of the corol, naked.

95. LÓLIUM. * Darnel.

CAL. The common *Receptacle* elongated into a spike, appressing the flowers two-rank-wise spiked into the angle of the culm.

Glume one-valved, opposite the rachis, awl'd, permanent.

COR. two-valved : the *inferior valvelet* narrow-lanced, convolute, pointed, the length of the calyx ; the *superior valvelet* shorter, linear, obtuser, concave upwards.

STAM. *Filaments* three, capillary, shorter than the corol. *Anthers* oblong.

PIST. *Germ* top-shape. *Styles* two, capillary, reflected. *Stigmas* feathery.

PER. none. The *Corol* embraces the seed, gapes, drops it.

SEED one, oblong, convex on one side, flat-furrow'd on the other, compress'd.

OBS. The sessile spikes are placed in the same plane with the culm ; whence the stem supplies the place of another valvelet of the calyx (deficient and opposite).

1360. ROTTBÖLLA. *Gram. gen. p. 23. S.*

Rachis cylindric, thread-form, very upright, jointed : each joint oblong-excavated downwards towards the joint below it. The *flowers* included in the excavated sinuses of the rachis, solitary or two, one male, the other hermaphrodite.

CAL. *Glume* one-valved : the valvelet simple or two parted, cartilaginous, lop'd at the base, closing the sinus like a cover, joined to the rachis by a movable articulation, egg-oblong, acute, flat.

COR. The *hermaphrodite glume* two-valved : the *valvelets* lanced, acute, concave, unequal, membranous, shorter than the calyx. The *male glume*, if present, similar to the former.

STAM. *Filaments* three, capillary. *Anthers* linear, two-fork'd at both ends.

PIST. *Germ* oblong-linear, lop'd, furnished with an headlet, convex on one side, concave on the other. *Styles* two, thread-form. *Stigmas* feathery or pencil-form.

PER. none, except the sinuses of the joints closed by the glume of the calyx containing the seed mature not falling, until the rachis dies by joints.

SEED. one, the figure of the germ.

96. ÉLYMUS. * *Lyme-grass.*

CAL. The common *Receptacle* elongated into a spike.

Glume four-leaved, two-rank'd, two leaflets under each spike, awl'd.

COR. two-valved : the *exterior valvelet* larger, pointed, awn'd : the *interior* one flat.

STAM. *Filaments* three, capillary, very short. *Anthers* oblong, two-cleft at the base.

PIST. *Germ* top-shape. *Styles* two, divaricated, hairy, inflected. *Stigmas* simple.

PER. *Corol* involving the seed.

SEED. one, linear, convex on one side, cover'd.

97. SECÁLE. * Rye.

The common *Receptacle* elongated into a spike.

CAL. *Glume* two-flower'd, two-leaved: the *leaflets* opposite, distant, erect, linear, pointed, less than the corol: *Florets* sessile.

COR. two-valved: the *exterior valvulet* more rigid, bellied, pointed, compressed, (the keel fringed) ending in a long awn: the *interior valvulet* flat, lanced.

STAM. *Filaments* three, capillary, hanging out of the flower. *Anthers* oblong, forked.

PIST. *Germ* top-shape. *Styles* two, reflected, villous. *Stigma* simple.

PER. none. The *corol* embraces the seed, gapes, drops it.

SEED one, oblong, subcylindric, naked, pointed at one end.

OBS. The third flower often peduncled between the two larger sessile ones.

98. HÓRDEUM. *Tournef.* 95. Barley.

CAL. The common *Receptacle* elongated into a spike.

Glume six-leaved, three-flower'd: *Flowers* sessile: leaflets distant, distributed by pairs, linear, pointed.

COR. two-valved: the *inferior valvulet* bellied, angular, egg-pointed, longer than the calyx, ending in a long awn: the *interior valvulet* lanced, flat, less.

STAM. *Filaments* three, capillary, shorter than the corol. *Anthers* oblong.

PIST. *Germ* top-egg'd. *Styles* two, villous, reflected. *Stigmas* similar.

PER. *Corol* grows round the seed, not gaping.

SEED oblong, bellied, angular, pointed at both ends, thence marked with a longitudinal furrow.

OBS. In some all the three flowers contained in the involucre are hermaphrodite fertile; in others 3, 4, 6, 7, lateral flowers are males, but the intermediate hermaphrodite one is alone fertile.

99. TRÍTICUM. *Tournef.* 292. 293. *Wheat.*

CAL. The common *Receptacle* elongated into a spike.

Glume two-valved, mostly three-flower'd: the *valvelets* egg'd, obtusish, concave.

COR. two-valved, subequal, the size of the calyx: the *exterior valvelet* bilobed, obtuse with a point: the *interior* one flat.

STAM. *Filaments* three, capillary. *Anthers* oblong, two-fork'd.

PIST. *Germ* top-shape. *Styles* two, capillary, reflected. *Stigma* feathery.

PER. none. The *corol* embraces the seed, gapes, drops it.

SEED one, egg-oblong, obtuse at both ends, convex on one side, furrow'd on the other.

OBS. The *exterior valvelet* of the *corol* is awn'd in some, awnless in others. The *intermediate floret* is often male.

III. THREE FEMALES.

(*Trigýnia.*)100. ERIOCAULON. † *Gren. Virg.* 14. *Wool-stalk.*

CAL. *Perianth* common globe-depress'd, imbricated: the scales lanced, equal, permanent.

COR. *Universal* one, uniform, convex.

Proper one, three-petal'd: the *petals* lanced, obtuse, villous at top, attenuated and conjoined at the base into a style-form pedicel, hairy.

STAM. *Filaments* three, capillary, standing on the germ: *Anthers* oblong, versatile.

PIST. *Germ* slender, above, under the stamens. *Styles* three, capillary, short. *Stigmas* simple.

PER. none. *Calyx* unchang'd.

SEED solitary, crown'd with the corol.

REC. Chaff the size and figure of the scales of the calyx, one-flower'd, very numerous.

OBS. The *florets* of the *Eriocaulon* decangulare (ten-angled,) in the disk are male, in the circumference female: other species should be seen before the character is amended. *Syst. of Veget.* R.

I have considered it superfluous to mention every where the Nectary two leaved, above, obtusish, common to grasses, since it does not distinguish the genera.

101. MONTIA. * *Mich.* 13. *Cameraria. Dill. gen. 6.*
Alfinoides. Vaill. B. P. Blinks.

CAL. *Perianth* two-leaved: the *leaflets* egg'd, concave, obtuse, erect, permanent.

COR. one-petal'd, five-parted: the three alternate divisions less, stamens-bearing.

STAM. *Filaments* three, capillary, the length of the corol, on which they are inserted. *Anthers* small.

PIST. *Germ* top-shape. *Styles* three, villous, expanding. *Stigmas* simple.

PER. *Capule* top-shape, obtuse, covered; one-cell'd, three-valved.

SEEDS three, roundish.

OBS. *The Calyx often varies into three leaflets, and then it frequently produces five stamens.*

102. PROSERPINACA. † *Trixis. Mich.* 23.

CAL. *Perianth* three-parted, above: the *leaflets* erect, pointed, permanent.

COR. none.

STAM. *Filaments* three, awl'd, expanding, the length of the calyx. *Anthers* twin, oblong, acute.

PIST. *Germ* beneath, three-sided, very large. *Style* none. *Stigmas* three, pubescent, thickish, the length of the stamens.

PER. none.

SEED one, bony, egg'd, three-sided, three-cell'd, terminated by the closed calyx.

103. TRIPLARIS. † *Loefling.*

CAL. *Perianth* one-leaved, egg'd, three-cleft: (the divisions lanced, membranous, expanding, very long) permanent.

COR. *Petals* three, the length of the tube of the calyx. *Jacq.*

STAM. *Filaments* three, awl'd, the length of the tube of the calyx. *Anthers* linear, membranous, egg'd.

PIST. *Germ* egg'd, triangular: the angles compressed. *Styles* three, awl'd, long as the stamens. *Stigmas* three-sided, villous.

PER. none. Fruit within the tube of the calyx.

SEED *Nut* egg'd.

OBS. In *Syst. Veg. Ed. 14.* the character is thus deliver'd.

CAL. very large, three-parted.

COR. none. *Anthers* linear.

Nut three sided, within the egg'd base of the calyx.

Calyx does not appear in the fruit, but strictly surrounds and includes the seed, and then becomes three leaflets, very long, erectish; and should therefore be rather call'd a foliaceous very long calyx. *Jacquin in litt. M.*

104. HOLÓSTEUM. * (*All-bone.*)

CAL. *Perianth* five-leaved: the leaflets egg'd, permanent.

COR. *Petals* five, two-parted, obtuse, equal.

STAM. *Filaments* three, thread-form, shorter than the corol. *Anthers* roundish.

PIST. *Germ* roundish. *Styles* three, thread-form. *Stigmas* obtusish.

PER. *Capsule* one-cell'd, subcylindric, gaping at top.

SEEDS very numerous, roundish.

OBS. The petals of the *H. succulentum* (juicy,) are rather three-cleft. *H. umbellatum*, (umbell'd,) varies from 3 to 4 stamens and pistils. *Hall. Heister. R.*

1241. KOENIGIA.

CAL. *Perianth* three-leaved: the leaflets egg'd, concave, permanent.

COR. none.

STAM. *Filaments* three, capillary, shorter than the calyx. *Anthers* roundish.

PIST. *Germ* egg'd. *Styles* none. *Stigmas* three, (often two) approximated, villous, colour'd.

PER. none.

SEED one, egg'd, naked, the length of the calyx.

105. POLYCARPON. *Muck-fruit.* * *Loefling.*

CAL. *Perianth* five-leaved: the *leaflets* egg'd, concave, keel'd, dagger'd, permanent.

COR. *Petals* five, very small, egg'd, end-nick'd, alternate, permanent.

STAM. *Filaments* three, thread-form, shorter by half than the calyx, *Anthers* roundish.

PIST. *Germ* egg'd. *Styles* three, very short. *Stigmas* obtuse.

PER. *Capsule* egg'd, one-cell'd, three-valved.

SEEDS very numerous, egg'd.

106. MOLLUGO. * *Softness.*

CAL. *Perianth* five-leaved: the *leaflets* oblong, erect-expanding, colour'd within, permanent.

COR. *Filaments* three, bristly, shorter than the corol, approximated to the pistil. *Anthers* simple.

PIST. *Germ* egg'd, three-furrow'd. *Styles* three, very short. *Stigmas* obtuse.

PER. *Capsule* egg'd, three-cell'd, three-valved,

SEEDS numerous, kidney-form.

107. MINUARTIA. * *Loefling.*

CAL. *Perianth* five-leaved, erect, long; the *leaflets* awl'd, rigidish, permanent.

COR. none.

STAM. *Filaments* three, capillary, short. *Anthers* roundish.

PIST. *Germ* three-corner'd. *Styles* three, short, thread-form. *Stigmas* thickish.

PER. *Capsule* oblong, triangular, much shorter than the calyx, one-cell'd, three-valved.

SEEDS few, roundish, compress'd.

OBS. *M. montana*, (*mountain*), has *five petals*, scarcely any other; *M. alpine* has often *five stamens*. Linn. R

108. QUÉRIA. †

CAL. *Perianth* five-leaved, erect: the *leaflets* oblong, acute, permanent, the exterior ones recurved.

COR. none.

STAM. *Filaments* three, capillary, short. *Anthers* roundish.

PIST. *Germ* egg'd. *Styles* three, the length of the *stamens*. *Stigmas* simple.

PER. *Capsule* roundish, one-cell'd, three-valved.

SEED one.

OBS. It manifestly differs from *Minuartia* in the number of the seeds.

109. LECHEA. † Kalm.

CAL. *Perianth* three-leaved: the *leaflets* egg'd, concave, most expanding, permanent.

COR. *Petals* three, linear, narrower than the calyx, but mostly longer, concave.

STAM. *Filaments* three (sometimes 4, 5.) capillary, longer than the corol, incumbent on the pistil, equal. *Anthers* roundish.

PIST. *Germ* egg'd. *Style* none. *Stigmas* three, feathery, divaricated.

PER. *Capsule* egg'd, three-sided, three-cell'd, three-valved; it has besides three internal valvelets converging towards the exterior ones, constituting the partitions.

SEEDS. solitary, egg'd, angular inwardly.

OBS. L. major (greater) has four *stamens*, of these the two superior are approximated. Clayt. R.

C L A S S IV.

FOUR MALES.

(Tetrándria.)

I. ONE FEMALE.

(Monogýnia.)

- | | |
|--------------------|-------------------|
| 110. III. Prótea. | 132. Pavétta. |
| 112. Globulária. | 133. Petéfia. |
| 113. Cephalánthus. | 134. Mitchélla. |
| 114. Dípfacus. | 135. Callicárpa. |
| 115. Scabiófa. | 136. Aquártia. |
| 116. Knáutia. | 137. Polypréum. |
| 117. Alliónia. | 138. Penæa. |
| 118. Hedyótis. | 139. Bléria. |
| 1242. Scabríta. | 140. Buddléja. |
| 119. Spermacóce. | 141. Éxacum. |
| 120. Sherárdia. | 142. Plantágo. |
| 121. Aspérula. | 143. Scopária. |
| 122. Diódia. | Skímmia. |
| 123. Knóxia. | 144. Rhacóma. |
| 124. Houftónia. | Othéra. |
| 125. Gálium. | Oríxa. |
| 126. Crucianélla. | 145. Centúnculus |
| 127. Rúbia. | 146. Sanguifórba. |
| 129. Siphonánthus. | 147. Cíffus. |
| 130. Catefbéa. | 148. Epimédium. |
| 131. Ixóra. | 149. Córnu. |

1192. Sámara.

- 1192. Sámara.
- 150. Fágara.
- 1290. Ælgíphila.
- 152. Ptélea.
- 1361. Hydrophýlax.
- 1292. Sírium.
- 153. Ludwígia.
- 1362. Bánksia.
- 154. Oidenlándia.
- 155. Amánnia.
- 156. Isnárdia.
- 157. Trápa.
- 158. Dorsténia.
- 1243. Cométes.
- Nigrína.
- 159. Elæágnus.
- Gonocárpus.
- 480. Santalum.
- 1244. Struthíola.
- 136. Manétria.
- 161. Kraméria.
- 1363. Hartógia.
- 1193. Acéna.
- 162. Rivína.
- 1364. Embóthrium.
- 163. Salvadóra.

- 164. Camphrófma.
- 165. Alchemílla.

II. TWO FEMALES

(*Digýnia.*)

- 166. Áphanes.
- 167. Crucíta.
- 168. Bufónia.
- 169. Hamamélis.
- 170. Cuscúta.
- 171. Hypécoon.
- 1365. Gomózia. S.

III. FOUR FEMALES.

(*Tetragýnia.*)

- 172. Ílex.
- 173. Coldénia.
- 174. Potamogéton.
- 175. Rúppia.
- 176. Sagína.
- 177. Tillæa.
- 178. Mygínda.

FOUR MALES.

(Tetrandria.)

I. ONE FEMALE.

(Monogynia.)

FIG. III. PRÓTEA. *Leucodendron. gen. pl. ed. vi.*
Aulax Berg.
Lepidocarpodendron. Bærb.
Hypophyllocarpodendron. B.
Conocarpodendron. Ejusdem.
Silver-tree.

CAL. Common Perianth often imbricated: scales permanent, their figure and proportion various.
 Proper Perianth none.

COR. Universal uniform. Proper one two or four petal'd: the petals different in figure.

STAM. Filaments four, inserted beneath the top of the petals. Anthers linear.

PIST. Germ above, awl'd, or roundish. Style thread-form. Stigma simple.

PER. none. Calyx unchanged,

SEED solitary, roundish.

REC. common, naked or villous or chaffy.

OBS. The species of the Genus differ much in all the parts of the fructification, but agree in the essential character of the stamens being inserted beneath the top of the corol. Linn. mart. 194. R.

P. pinifolia, (pine-leaved) and racemosa (racemed) have a one-flower'd calyx.

P. parviflora (small-flower'd) has an oblong stigma two cleft at top. R.

Essential character from Murray. Ed. 14.

COR. four-petal'd. (The petals indeed cohering either at the base or top. Thunb. M.) Anthers linear, (or oblong) inserted beneath the top of the petals.

CAL. proper, none.

SEED one, above, (naked). Cfr. Thunb. Dis. de Protea. p. 7, 8. M.

112. GLOBULÁRIA. * *Globularity. Tournef. 165.*
Alypum. Niss. A. G.
 1712. t. 18. *Globe-daisy.*

CAL. *Common Perianth* imbricated, with scales the length of the disk, equal.

Proper perianth one-leaved, tubular, five-cleft, acute, permanent.

COR. *Universal* subequal.

Proper one-petal'd, tubular at the base. *Border* five-parted: the superior *lip* very narrow, two-parted, shorter: inferior *lip* with divisions three, greater, equal.

STAM. *Filaments* four, simple, the length of the corollet. *Anthers* distinct, incumbent.

PIST. *Germ* egg'd, above. *Style* simple, the length of the stamens. *Stigma* obtuse.

PER. none. The *proper calyx* converging, including the seed.

SEEDS solitary, egg'd.

REC. *common* oblong, furnish'd with chaff.

113. CEPHALÁNTHUS. * (*Head-flower.*)
Platanocephalus.
Vaill. A. G.
 1722. *Button-*
wood.

CAL. *Common Perianth* none, but the receptacle collecting the numerous florets into a globular head.

Proper Perianth one-leaved, funnel-form, angular: the border four-cleft.

COR. *Universal* equal. *Proper* one-petal'd, funnel-form, acute,

STAM. *Filaments* four, inserted into the corol, shorter than the border. *Anthers* globular.

PIST. *Germ* beneath. *Style* longer than the corol. *Stigma* globular.

PER. none.

SEEDS solitary, long, attenuated at the base, pyramidal and woolly.

REC. *common* globular, villous.

114. DÍP-

114. **DIPSACUS.** * (*Thirst.*) *Tournef.* 265.
Vaill. A. G. 1722. *Teasel.*

CAL. *Common Perianth* many-flower'd, many-leaved: the *leaflets* longer than the *floret*, loose, permanent.

Proper Perianth scarcely manifest, above.

COR. *Proper Universal* equal, one-petal'd, tubular: the border four-cleft, erect: the *exterior division* larger, more acute.

STAM. *Filaments* four, capillary, longer than the corol. *Anthers* incumbent.

PIST. *Germ* beneath. *Style* thread-form, the length of the corol. *Stigma* simple.

PER. none.

SEEDS solitary, columnar, crown'd with the entire calyx-margin.

REC. *Common* conic, furnish'd with longer chaff.

115. **SCABIOSA.** * *Tournef.* 263. 264. *Vaill. A. G.* 1722. *Asterocephalus*
Vaill. ibid. *Succisa Vaill. ibid.*
Pterocephalus Vaill. ibid.
Scabious.

CAL. *Common Perianth* many-flower'd, expanding, many-leaved: the *leaflets* furrounding the receptacle in various series and growing on it, whereof the interior ones are gradually less.

Proper Perianth double, both above.

Exterior P. shorter, membranous, plaited, permanent.

Interior P. five-parted: the *divisions* awl-capillary.

COR. *Universal* equal, often from unequal ones.

Proper one-petal'd, tubular, half-4-or-5-cleft, equal or unequal.

STAM. *Filaments* four, awl-capillary, feeble. *Anthers* oblong, incumbent.

PIST. *Germ* beneath, involved by a proper sheath as with a calycle. *Style* thread-form, the length of the corol. *Stigma* obtuse, obliquely end-nick'd.

PER. none.

SEEDS solitary, egg-oblong, involute, crown'd variously with proper calyxes.

REC. *Common* convex, chaffy or naked.

OBS. *Exterior corollets* often larger more unequal. *The crowns of the seeds* are various in different plants.

The florets four-cleft and five-cleft, chiefly distinguish the species.

116. **KNÁU-**

116. KNAUTIA. * *Lychni-Scabiosa*. Boerb.

CAL. *Common Perianth* containing the florets digested in a simple orb, simple, cylindric, oblong, erect: the *divisions* awl'd, approximated, the number of the florets.

Proper Perianth very small, crowning the germ.

COR. *Proper universal* equal, one-petal'd, unequal: the *Tube* the length of the calyx. *Border* unequal, four-cleft: the exterior *division* larger, egg'd.

STAM. *Filaments* four, longer than the tube of the corol, inserted on the receptacle. *Anthers* oblong, incumbent.

PIST. *Germ* beneath. *Style* thread-form, the length of the stamens. *Stigma* thickish, two-cleft.

PER. none.

SEEDS solitary, four-corner'd, crown'd with a pappus.

REC. *Common* scarcely discernible, flat, naked.

Obs. It is distinguished from the *Scabious*, to which it is nearly allied, by a tubular calyx and simple ring of florets.

117. ALLIONIA. *Læfl. it.* 181.

CAL. *Common Perianth* oblong, simple, three-flower'd, five-parted: (the *divisions* egg'd, acute,) permanent. *Proper Perianth*, obscure, above.

COR. *Proper* one-petal'd, funnel-form: the mouth five-cleft, erect.

STAM. *Filaments* four, bristly, longer than the corol, bending to one side. *Anthers* roundish.

PIST. *Germ* beneath, oblong. *Style* bristly, longer than the stamens. *Stigma* many-cleft, linear.

PER. none.

SEEDS solitary, oblong, five-angled, naked.

REC. naked.

118. HEDYÓTIS. † (*Sweet-ear.*)

CAL. *Perianth* one-leaved, four-parted, above, permanent: the *divisions* linear, acute.

COR. one-petal'd, funnel-form, rather longer than the calyx, half 4-cleft: the divisions spreading, subequal.

STAM. *Filaments* four, awl'd, inserted at the sinuses of the corol. *Anthers* roundish.

PIST. *Germ* roundish, beneath. *Style* thread-form, the length of the stamens. *Stigmas* two, thickish.

PER. *Capsule* globe-twin, two-cell'd, gaping near the coronal calyx with a transverse fissure.

SEEDS few, angular.

1242. SCABRITA. (*Roughness.*)

CAL. *Perianth* one-leaved, tubular, lop'd, most intire, permanent.

COR. one-petal'd, salver-form. *Tube* cylindric, the length of the calyx. *Border* four-parted, expanding, with two-lobed lobes.

STAM. *Filaments* four, in the middle of the tube, very short. *Anthers* oblong, the length of the tube.

PIST. *Germ* above, rather egg'd. *Style* thread-form, the length of the tube. *Stigmas* two, acute.

PER. none.

SEEDS two, parallel, appress'd, inverse-egg'd, two-lobed at top, convex without.

119. SPERMACÓCE. * *Dill. elth. 277. Button-weed.*

CAL. *Perianth* small, four-tooth'd, above, permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, slender, longer than the calyx. *Border* four-parted, broad-reflected, obtuse.

STAM. *Filaments* four, awl'd, shorter than the corol. *Anthers* simple.

PIST. *Germ* roundish, compress'd, beneath. *Style* simple, two-cleft above. *Stigmas* obtuse.

PER. *Capsules* two, conjoined, oblong, gibbous on one side, flat on the other, obtuse, each two-horn'd.

SEEDS solitary, roundish.

OBS. *S. hispida* (*hispid*) has a corol top-bell'd, erect. R.

120. *SHERARDIA*. * *Dill. gen. 3.*

CAL. *Perianth* small, four-tooth'd, above, permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, long. *Border* four-parted, flat, acute.

STAM. *Filaments* four, placed at the top of the tube. *Anthers* simple.

PIST. *Germ* twin, oblong, beneath. *Style* thread-form, two-cleft above. *Stigmas* headed.

PER. none. *Fruit* oblong, crown'd, separable longitudinally into two seeds.

SEEDS two, oblong, marked at top with three-points, convex on one side, flat on the other

121. *ASPERULA*. * (*Roughishness.*) *Wood-roof.*

CAL. *Perianth* small, four-tooth'd, above.

COR. one-petal'd, funnel-form. *Tube* cylindric, long.

Border four-parted: the *divisions* oblong, obtuse, reflected.

STAM. *Filaments* four, placed at top of the tube. *Anthers* simple.

PIST. *Germ* twin, roundish, beneath. *Style* thread-form, two-cleft above. *Stigmas* headed.

PER. *Berries* dry, two, globular, coalesced.

SEEDS solitary, roundish, large.

OBS. *A. trinctoria* (*dyers*) and *pyneriaca* (*pyrenean*) have generally three-cleft flowers.

122. *DIODIA*. † *Gronov.*

CAL. *Perianth* two-leaved: the *leaflets* rather egg'd, above, equal permanent.

COR. one-petal'd, funnel-form. *Tube* slender, long.

Border small, expanding, four-parted: the *divisions* lanced.

STAM. *Filaments* four, bristly, erect. *Anthers* versatile.

PIST. *Germ* roundish, four-corner'd, beneath. *Style* thread-form, the length of the *stamens*. *Stigma* two-cleft.

PER. *Capsule* egg'd, four-corner'd, crown'd with a large calyx, two-cell'd, two-valved.

SEEDS solitary, egg-oblong, glossy, convex on one side, flat on the other.

123. *KNÓ-*

123. KNÓXIA. †

- CAL. *Perianth* four-leaved, above, small, deciduous : the *leaflets* pointed : one lanced, three times larger.
- COR. one-petal'd, funnel-form. *Tube* thread-form, long.
Border four-parted : the *divisions* equal, oblongish, rounded.
- STAM. *Filaments* four, capillary, within the throat of the corol. *Anthers* oblong, equal.
- PIST. *Germ* roundish, beneath. *Style* thread-form, the length of the stamens. *Stigmas* two, headed.
- PER. *Fruit* naked, subglobular, pointed, furrow'd.
- SEEDS two, roundish, pointed, convex without, ploughed with three strias ; flat within, annexed above to a thread-form Receptacle.

124. HOUSTONIA. * Gronov.

- CAL. *Perianth* very small, four-tooth'd, erect, permanent.
- COR. one-petal'd, funnel-form. *Tube* cylindric, long. *Border* four-parted, expanding : the *divisions* roundish.
- STAM. *Filaments* four, in the neck of the corol, very small. *Anthers* simple.
- PIST. *Germ* above, roundish, compress'd. *Styles* simple, shorter than the stamens. *Stigma* two-cleft, acute.
- PER. *Capsule* roundish, twin, two-cell'd, two-valved : the *valvelets* opposite the partition.
- SEEDS solitary.

125. GÁLIIUM. * Gallium. Tournef. 39. Aparine
 Tournef. 39. Bed-straw.

- CAL. *Perianth* very small, four-tooth'd, above.
- COR. one-petal'd, wheel'd, four-parted, acute ; tube none.
- STAM. *Filaments* four, awl'd, shorter than the corol. *Anthers* simple.
- PIST. *Germ* twin, beneath. *Style* thread-form, half-two-cleft, the length of the stamens. *Stigmas* globular.
- PER. *Berries* dry, two, globular, coalesced.
- SEEDS solitary, kidney-form, large.
- OBS. *The Aparine of Tournefort with hispid fruit was distinct from the Gallium of T. with smooth fruit.*

126. CRUCIANÉLLA. * (*Crosslet.*) Rubeo-
la Tournef. 50. Petty-
madder.

- CAL. *Perianth* two-leaved, beneath: the leaflets lanced, keelleted, pointed, rigid, converge-compress'd.
COR. one-petal'd, funnel-form. *Tube* cylindric, thread-form, longer than the calyx. *Border* four-cleft: the divisions tail'd, with points inflected.
STAM. *Filaments* four, placed in the mouth of the tube. *Anthers* simple.
PIST. *Germ* compressed, between the calyx and the corol. *Style* two-cleft, thread-form, the length of the tube. *Stigmas* two, obtuse, oblong.
PER. *Capsules* two, conjoined.
SEEDS solitary, oblong.
OBS. *C. maritima* (sea) has five-cleft five-male corols.
C. ægyptiaca (egyptian) has even five-cleft flowers. R.

127. RÚBIA. * (*Rednefs.*) Tournef. 38. Madder.

- CAL. *Perianth* very small, four-tooth'd, above.
COR. one-petal'd, bell'd, four-parted, without a tube.
STAM. *Filaments* four, awl'd, shorter than the corol. *Anthers* simple.
PIST. *Germ* twin, beneath. *Style* thread-form, two-cleft above. *Stigmas* headed.
PER. *Berries* two, coalesced, smooth.
SEEDS solitary, roundish, dimpled.
OBS. *The flower often becomes five-cleft.*

129. SIPHONÁNTHUS. (*Tube-flower.*) Siphonanthemum Amm. Act. petrop. 1756.

- CAL. *Perianth* one-leaved, five-parted, ample, permanent.
COR. one-petal'd, funnel-form. *Tube* thread-form, very narrow, many times longer than the calyx. *Border* five-parted, expanding, less than the calyx.
STAM. *Filaments* four, longer than the border of the corol. *Anthers* oblong, triangular.
PIST. *Germ* four-cleft, very short. *Style* thread-form, the length of the stamens, with top recurved. *Stigma* simple.
PER. *Berries* four, within the expanded calyx, roundish.
SEEDS solitary, roundish.

130. CATESBÆA. † Gronov. *Lily-thorn*.

- CAL. *Perianth* four-tooth'd, above, very small, acute, permanent.
 COR. one-petal'd, funnel-form. *Tube* longest of all, straight, gradually thickning above. *Border* half-four-cleft, broad, flat-erect.
 STAM. *Filaments* four, growing out within the neck of the tube. *Anthers* oblong, erect, somewhat longer than the corol.
 PIST. *Germ* roundish, beneath. *Style* thread-form, the length of the corol. *Stigma* simple.
 PER. *Berry* oval, crown'd, one-cell'd.
 SEEDS numerous, angular.

131. IXÓRA. †

- CAL. *Perianth* four-parted, very small, erect, permanent.
 COR. one-petal'd, funnel-form. *Tube* cylindric, very long, slender. *Border* four-parted, flat : the *divisions* egg'd.
 STAM. *Filaments* four, above the throat of the corol, very short, incurved. *Anthers* oblong.
 PIST. *Germ* roundish, beneath. *Style* thread-form, the length of the tube. *Stigma* two-cleft.
 PER. *Berry* roundish, two-cell'd.
 SEEDS four, convex on one side, angular on the other.

132. PAVETTA. †

- CAL. *Perianth* bell'd, very small, obscurely four-tooth'd, surrounding the germ.
 COR. one-petal'd, funnel-form ; *Tube* long, slender, cylindric. *Border* four-parted, expanding, shorter by half than the tube : the divisions lanced.
 STAM. *Filaments* four, very short, above the throat of the corol. *Anthers* awl'd, expanding, the length of the border.
 PIST. *Germ* beneath, top-shape. *Style* thread-form, twice as long as the corol. *Stigma* thickish, oblong, oblique.
 PER. *Berry* roundish, one-cell'd.
 SEED two, convex on one side, cartilaginous.

133. PETÉSIA. † *Brown. t. 2. f. 2. 3. & t. 3. f. 2.*

CAL. *Perianth* one-leaved, bell'd, above, the mouth tooth'd.

COR. one-petal'd, funnel-form. *Tube* cylindric, longer than the calyx. *Border* four-parted: the lobes rounded, obtuse.

STAM. *Filaments* four, awl'd, the length of the tube. *Anthers* oblongish.

PIST. *Germ* beneath. *Style* thread-form. *Sigma* two-cleft, acute.

PER. *Berry* globular, crown'd, two-cell'd.

SEEDS numerous, roundish.

134. MITCHELLA. † *Chamædaphne Mitch. 27.*

CAL. Two flowers sitting on the same germ.

Perianths two, distinct, four-tooth'd, erect, permanent, above.

COR. one-petal'd, funnel-form: the tube cylindric: *Border* four-parted, expanding, shaggy within.

STAM. *Filaments* four, thread-form, erect, within the sinuses of the corol. *Anthers* oblong, acute.

PIST. *Germ* twin, orbicular, common to two flowers, beneath. *Style* thread-form, the length of the corol. *Stigmas* four, oblong.

PER. *Berry* two-parted, globular, with separate navels.

SEEDS four, compress'd, callous.

135. CALLICARPA. † (*Fine-fruit*) *Spondylococcus. Mitch. 20.*

CAL. *Perianth* one-leaved, bell'd: the mouth four-cleft, erect.

COR. one-petal'd, tubular: *Border* four-cleft, obtuse, expanding.

STAM. *Filaments* four, thread-form, twice as long as the corol. *Anthers* egg'd, incumbent.

PIST. *Germ* roundish. *Style* thread-form, thicker above. *Stigma* thickish, obtuse.

PER. *Berry* globular, smooth.

SEEDS four, oblong, meniscus-form, compress'd, callous.

Obs. *C. americana* (american) has a cylindric calyx, seldom four-tooth'd.

136. AQUA-

136. AQUÁRTIA. Jacq. 12.

CAL. *Perianth* one-leaved, permanent: the tube bell'd: *Border* somewhat four-cleft, expanding: the two opposite *divisions* obscure.

COR. one-petal'd, wheel'd. *Tube* very short. *Border* four-cleft: the *divisions* linear, most expanding.

STAM. *Filaments* four, short. *Anthers* erect, very large, linear.

PIST. *Germ* egg'd. *Style* thread-form, declining, the length of the corol. *Stigma* simple.

PER. *Berry* globular, one-cell'd.

SEEDS very numerous, compress'd.

137. POLYPRÉMUM. † Carolina-flax.

CAL. *Perianth* four-leaved, permanent: the *leaflets* lanced, keel'd, colour'd within.

COR. one-petal'd, wheel'd. *Border* four-cleft: the lobes inverse-egg'd, the length of the calyx.

STAM. *Filaments* four, very short, in the throat of the corol. *Anthers* roundish.

PIST. *Germ* inverse-hearted. *Style* short, permanent. *Stigma* lop'd.

PER. *Capsule* egg'd, compress'd at top, end-nick'd, two-cell'd with partition contrary, two-valved.

SEEDS numerous.

138. PENÆA. †

CAL. *Perianth* two-leaved: the *leaflets* opposite, lanced, concave, equal, colour'd, shorter by half than the corol, loose, deciduous.

COR. one-petal'd, bell'd. *Border* four-cleft, spreading, much shorter than the tube: the *divisions* acute.

STAM. *Filaments* four, awl'd, shortest of all, situated in the tube between the *divisions* of the corol, erect, naked. *Anthers* erect, flatish, end-nick'd at both ends.

PIST. *Germ* egg'd, four-corner'd. *Style* four-corner'd with four longitudinal membranous wings. *Stigmas* cross-form, obtuse, permanent.

PER. *Capsule* four-corner'd, furnish'd with a style, four-cell'd, four-valved.

SEEDS two, oblongish, obtuse.

139. BLÆRIA. ‡

CAL. *Perianth* four-parted: the *leaflets* linear, erect, rather shorter than the corol, permanent.

COR. one-petal'd, bell'd. *Tube* cylindric, the length of the calyx, pervious. *Border* small, four-cleft: the *divisions* egg'd, reflected.

STAM. *Filaments* four, bristly, the length of the tube, inserted on the receptacle. *Anthers* oblong, compressed, erect, obtuse, end-nick'd.

PIST. *Germ* four-corner'd, short. *Style* bristly, much longer than the corol. *Stigma* obtuse.

PER. *Capsule* obtuse, four-angled, four-cell'd, gaping in the angles. SEEDS few, roundish.

OBS. *The Anthers are indeed end-nick'd, but by no means two-horn'd, as in their kindred Heath.*

B. articulata (jointed) has a cylindric corol. And B. pusilla (feeble) a funnel form corol. R.

140. BUDDLEJA. † *Houst. A. A.*

CAL. *Perianth* very small, four-cleft, acute, erect, permanent.

COR. one-petal'd, bell'd, half-four-cleft, erect, thrice as large as the calyx: the *divisions* egg'd, straight, acute.

STAM. *Filaments* four, very short, placed at the interstices of the corol. *Anthers* very short, simple.

PIST. *Germ* egg'd. *Style* simple, shorter by half than the corol, *Stigma* obtuse.

PER. *Capsule* egg'd, oblong, two-furrow'd, two-cell'd.

SEEDS numerous, very minute.

141. EXACUM. †

CAL. *Perianth* four-leaved: the *leaflets* egg'd, obtuse, erect-expanding, permanent.

COR. one-petal'd, permanent: *Tube* globular, the length of the calyx; *Border* four-parted: the *divisions* roundish, expanding.

STAM. *Filaments* four, thread-form, sitting on the tube, the length of the border. *Anthers* roundish.

PIST. *Germ* roundish, filling the tube. *Style* thread-form, erect, the length of the border. *Stigma* headed.

PER. *Capsule* roundish, compress'd, two-furrow'd, two-cell'd, the length of the calyx.

SEEDS numerous, the receptacle filling the capsule.

142. PLANTAGO. * *Tournef.* 48. *Coronopus*
Tournef. *Ptyllium Tournef.*
Plantain.

- CAL. *Perianth* four-cleft, erect, very short, permanent.
 COR. one-petal'd, permanent, withering. *Tube* cylinder-globed.
Border four-parted, reflected: the *divisions* egg'd, acute.
 STAM. *Filaments* four, capillary, erect, longest of all. *Anthers* oblongish, compressed, incumbent.
 PIST. *Germ* egg'd. *Style* thread-form, shorter by half than the *stamens*. *Stigma* simple.
 PER. *Capsule* egg'd, two-cell'd, circumcised, the partition free.
 SEEDS very numerous, oblong.
 OBS. *The Calyx in some is unequal, in others equal.*
P. uniflora (one-flower'd) is of one-house.
P. virginica (virginian) in america unfolds its corols, and puts forth it's stamens, seldom in Europe. R.

143. SCOPARIA. *

- CAL. *Perianth* one-leaved, four-parted, concave: the *divisions* slender, rugged.
 COR. one-petal'd, wheel'd, expanding, concave, four-parted: the *divisions* tongued, obtuse, equal: the throat bearded.
 STAM. *Filaments* four, equal, awl'd, shorter than the corol. *Anthers* simple.
 PIST. *Germ* conic. *Style* awl'd, the length of the corol, permanent. *Stigma* acute.
 PER. *Capsule* cone-oblong, pointed, one-cell'd, two-valved.
 SEEDS very numerous, oblong.

SKIMMIA. *Thunb. Fl. Jap.*

- CAL. *Perianth* one-leaved, green, very small, permanent, four-parted almost to the base, sometimes five-parted: *Divisions* egg'd, acute.
 COR. four-petal'd, white. *Petals* egg'd, very small, concave.
 STAM. *Filaments* four, very short.
 PIST. *Germ* above. *Style* one.
 PER. *Berry* egg'd, navel'd, smooth, red, obscurely four-furrow'd, the size of a pea; pulp-farinaceous within, white: mostly four-valved.
 SEEDS four, rather three-corner'd or externally convex, oblong, white.

144. RHA-

144. RHACÓMA. † *Crotopetalum*. *Brow. t. 17.*
f. 1.

CAL. *Perianth* one-leaved, expanding, four-parted, obtuse, small, permanent.

COR. four-parted, expanding, rounded, fringed.

STAM. *Filaments* four, awl'd, the length, of the calyx. *Anthers* roundish.

PIST. *Germ* roundish. *Style* thread-form, very short. *Stigma* obtuse.

PER. *Capsule* roundish, one-cell'd.

SEED one, roundish.

OTHERA. *Thunb. Fl. Jap.*

CAL. *Perianth* one-leaved, smooth, permanent, four-parted: the divisions egg'd.

COR. four-petal'd, white. *Petals* egg'd, obtuse.

STAM. *Filaments* four, inserted on the lowest base of the petals, twice as short as the corol. *Anthers* twin, four-furrow'd.

PIST. *Germ* above, smooth. *Style* none, but one *Stigma* sessile

PER. *Fruit* unknown, perhaps a capsule.

SEED

ORÍXA. *Thunb. Fl. Jap.*

CAL. *Perianth* one-leaved, four-parted, very short.

COR. four-petal'd, greenish. *Petals* lanced, expanding a line in length.

STAM. *Filaments* four, shorter than the petals. *Anthers* globular.

PIST. *Germ* above. *Style* single, erect, shorter than the petals. *Stigma* headed, obtuse.

PER. unknown, but seems to be a capsule.

SEED.

145. CENTUNCULUS. * (*Hundred-claws*)

Dill. gen. 5.

Anagallidastrum.

Mich. 10.

CAL. *Perianth* four-cleft, expanding, permanent: the *divisions* acute, lanced, longer than the corol.

COR. one-petal'd, wheel'd. *Tube* subglobular. *Border* four-parted, flat: the *divisions* nearly egg'd.

STAM. *Filaments* four, almost the length of the corol. *Anthers* simple.

PIST. *Germ* roundish, within the tube of the corol. *Style* thread-form the length of the corol, permanent. *Stigma* simple.

PER. *Capsule* globular, one-cell'd, circumcised..

SEEDS very numerous, roundish, very small.

146. SANGUISORBA. * (*Blood-sucker*) Wild-Burnet.

CAL. *Perianth* two-leaved: the *leaflets* opposite, very short, falling.

COR. one-petal'd, wheel'd, four-parted: the *divisions* egg'd, obtuse, the *claws* cohering.

STAM. *Filaments* four, broader upwards, the length of the corol. *Anthers* roundish, small.

PIST. *Germ* four-corner'd, placed between the calyx and corol. *Style* thread-form, very short. *Stigma* obtuse.

PER. *Capsule* small, two-cell'd.

SEEDS small.

147. CÍSSUS. †

CAL. *Involucre* many-leaved, very small.

Perianth one-leaved, flat, short, obscurely four-corner'd.

COR. *Petals* four, concave.

The margin of the *Nectary* surrounding the germ.

STAM. *Filaments* four, the length of the corol, inserted on the nectary. *Anthers* roundish.

PIST. *Germ* roundish, obtuse-four-corner'd, retuse. *Style* thread-form, the length of the stamens. *Stigma* simple, acute.

PER. *Berry* round, glossy, navel'd.

SEED *A little bone*, roundish.

OBS. *Berry* one-seeded, surrounded by the calyx and four-parted corol. *Syst. Veg. R.*

148. EPI-

148. EPIMÉDIUM. * *Tournef.* 117. *Barrenwort.*

CAL. *Perianth* four-leav'd: the *leaflets* egg'd, obtuse, concave, expanding, small, directly (not alternately) beneath the petals, falling.

COR. *Petals* four, egg'd, obtuse, concave, expanding.
Nectaries four, cup-form, with bottom obtuse, the size of the petals, incumbent on the petals, the margin of the mouth affixed to the receptacle.

STAM. *Filaments* four, awl'd, pressing the style. *Anthers* oblong, erect, two-cell'd, two-valved, gaping from the base towards the top, the partition free.

PIST. *Germ* oblong. *Style* shorter than the germ, the length of the stamens. *Stigma* simple.

PER. *Silique* oblong, pointed, one-cell'd, two-valved.

SEEDS. very numerous.

149. CÔRNUS. * *Tournef.* 419. *Virga sanguinea.*
Dill. Dog-wood.

CAL. *Involucre* often four-leaved, many-flower'd: the *leaflets* egg'd, opposite ones less, colour'd, deciduous.

Perianth very small, four-tooth'd, above, deciduous.

COR. *Petals* four, oblong, acute, flat, less than the involucre.

STAM. *Filaments* four, awl'd, erect, longer than the corol. *Anthers* roundish, incumbent.

PIST. *Germ* roundish, beneath. *Style* thread-form, the length of the corol. *Stigma* obtuse.

PER. *Drupe* roundish, navel'd.

SEED *Nut* hearted or oblong, two-cell'd.

1192. SÂMARA. †

CAL. *Perianth* very small, four-parted, acute, permanent.

COR. *Petals* four, egg'd, sessile, with a longitudinal pit at the base.

STAM. *Filaments* four, awl'd, long, opposite to the petals: immersed in a pit. *Anthers* rather hearted.

PIST. *Germ* egg'd, shorter by half than the corol, above, ending in a cylindric longer *Style*. *Stigma* funnel-form.

PER. *Drupe* roundish.

SEED solitary.

159. FÁGARA. † *Brown. t. 5. f. 1.*

CAL. *Perianth* four-cleft, very small: the *leaflets* concave, permanent.

COR. *Petals* four, oblongish, concave, expanding.

STAM. *Filaments* four, longer than the corol. *Anthers* egg'd.

PIST. *Germ* egg'd. *Style* thread-form, the length of the corol. *Stigma* two-lobed, obtusish.

PER. *Capsule* globular, one-cell'd, two-valved.

SEED one, round, glossy.

1290. ÆGÍPHILA. *Jacq. (Goat-friend.)*

CAL. *Perianth* one-leaved, bell'd, four-tooth'd, loose, very short, permanent.

COR. one-petal'd. *Tube* cylindric, narrower and longer than the calyx. *Border* four-cleft, flat, equal: the *divisions* oblong.

STAM. *Filaments* four, capillary, erect, longer. *Anthers* incumbent, squared.

PIST. *Germ* above. *Style* capillary, two-cleft, middle-size. *Stigma* simple.

PER. *Berry* roundish, one-cell'd.

SEEDS four

152. PTELEA. * *Shrub-trefoil.*

CAL. *Perianth* four-parted, acute, small.

COR. *Petals* four, egg-lanced, flat, expanding, larger than the calyx, leathery.

STAM. *Filaments* four, awl'd. *Anthers* roundish.

PIST. *Germ* orbicular, comprefs'd, above. *Style* short. *Stigmas* two, obtusish.

PER. *Membrane* roundish, perpendicular, two-cell'd in the centre.

SEEDS one, obtuse, attenuated at the base.

OBS. *The Calyx, Corol, Stamens* often add a fifth part of their number, then the Pistil a third part with the fruit

P. viscosa (viscous) seems to differ in the stamens alone being double.

1361. HYDROPHYLAX. S. (*Water-guard.*)

- CAL. *Perianth* one-leaved, above, erect, four-parted (it seems four-leaved, but the fleshy divisions cohere at the base by a minute membrane), the *divisions* egg'd, acute, margined, fleshyish, permanent.
- COR. one-petal'd, funnel form. *Tube* longer than the calyx. *Bor-*
der angular, four-cleft. *Divisions* egg'd, revolute: the throat
bearded.
- STAM. *Filaments* four, inserted into the top of the tube, decurrent,
erect, longer than the corol. *Anthers* rather halbered.
- PIST. *Germ* beneath, oblong, two-edg'd, striated. *Style* thread-form,
curved. *Stigma* two-cleft.
- PER. *Fruit* oblong, egg'd, four-angled, two edg'd, (for the opposite
angles are obliterated), a little incurved, woody, valveless.
- SEED one, linear, convolute, ruggedish.

1292. SIRIUM. †

- CAL. *Perianth* bell'd, half-four-cleft, colour'd: the *divisions* egg'd,
acute, expanding, permanent.
- COR. none.
Nectary four-leaved, crowning the throat of the calyx, erect,
shorter: the scales roundish, thickish, alternating with the
calyx.
- STAM. *Filaments* four, thread-form, inserted on the throat, alternate
with the calyx, ragged with hairs at the base behind. *Anthers*
oblongish, the length of the nectary.
- PIST. *Germ* half-beneath, conic. *Style* thread-form, the length of the
stamens. *Stigma* three-cleft.
- PER. *Berry* inverse-egg'd, crown'd, three-cell'd.
- SEED

153. LUDWIGIA. *

- CAL. *Perianth* one-leaved, four-parted, above, permanent: the *divisions* lanced, most expanding, the length of the corol.
- COR. *Petals* four, inverse-hearted, flat, most expanding, equal.
- STAM. *Filaments* four, awl'd, erect, short. *Anthers* simple, oblong, erect.
- PIST. *Germ* four-corner'd, cloathed with the base of the calyx, beneath. *Style* cylindric, the length of the stamens. *Stigma* obscurely four-corner'd, headed.
- PER. *Capsule* four-corner'd, obtuse, cloathed with the calyx, and crowned by it, four-cell'd, gaping at top with an intire little perforation.
- SEEDS numerous, small.

1362. BANKSIA. S.

- CAL. The common *Ament* cover'd on all sides with scales: the *scales* two, leathery, solid, transversely compress'd, straitly approximated in double order about the receptacle, spirally disposed: the *leaves of one order* approximated by pairs: the *alternate* broader ones, distinguishing the pairs of florets.
- COR. two between each larger scale: each four-petal'd, inserted in the receptacle, stretched out, withering: the *claws* linear, very long, cohering a long time into a tube: the *folds* converging a longer time about the stigma, small, lanced, acute, concave, hardish, revolute.
- STAM. *Filaments* none. *Anthers* four, inserted in the cavity of the folds, oppres'd, lanced, acute.
- PIST. *Germ* above, minute. *Style* thread-form, rigid, furrow'd, longer than the petals, incurved above. *Stigma* simple, thicker than the style, pyramidally acute, included under the fecundation within the folds of the corol.
- PER. *Strobile* containing between it's scales woody capsules, large, egg'd, one-cell'd, two-valved.
- SEED one, inverse-egg'd, two-partible, enlarged outwardly by a membrane large, egg'd, double.

154. OL-

154. OLDENLÁNDIA. * *Plum.* 36.

CAL. *Perianth* four-parted: (the *divisions* awl'd,) above, permanent.

COR. one-peta'l'd: *Tube* cylindric, closed with a beard. *Border* four-parted, acute, expanding, rather longer than the calyx.

STAM. *Filaments* four, simple, within the tube. *Anthers* small.

PIST. *Germ* roundish, beneath. *Style* simple, the length of the stamens. *Stigma* two-cleft, obtuse.

PER. *Capsule* twin, roundish, two-cell'd, gaping between the teeth of the calyx.

SEEDS numerous, very small.

155. AMÁNNIA. *Houft.* A. A.

CAL. *Perianth* bell'd, oblong, erect, with eight strias and plaits, four-angled, eight-tooth'd: (the teeth alternate, inflected,) permanent.

COR. none (or) *Petals* four, vertically egg'd, expanding, inserted on the calyx.

STAM. *Filaments* four, bristly, the length of the calyx, on which they are inserted. *Anthers* twin.

PIST. *Germ* somewhat egg'd, large, above. *Style* simple, very short, *Stigma* headed.

PER. *Capsule* roundish, four-cell'd, cover'd by the calyx.

SEEDS numerous, small.

Obs. *The Petals are often deficient, sometimes occur, and that in the same species.*

A. baccifera (berry-bearing) has a four-tooth'd calyx. R.

156. ISNÁRDIA. † *Dantia. Petit. gen.* 49.

CAL. *Perianth* bell'd, half-four-cleft: the *divisions* acute, expanding.

COR. none; unless you so name the calyx.

STAM. *Filaments* four, growing out from the middle of the calyx. *Anthers* simple.

PIST. *Germ* rather beneath. *Style* simple, longer than the stamens.

PER. The base of the calyx squared, four-cell'd.

SEEDS few, oblong.

157. TRÁ-

157. TRÁPA. * *Tribuloides Tournef.* 431.

CAL. *Perianth* one-leaved, four-parted, acute, permanent, growing to the base of the germ: *Leaflets* two lateral, and two at the angles of the germ.

COR. *Petals* four, inverse-egg'd, larger than the calyx.

STAM. *Filaments* four, the length of the calyx. *Anthers* simple.

PIST. *Germ* egg'd. *Style* simple, the length of the calyx. *Stigma* headed, end-nick'd.

PER. none.

SEED *Nut* egg-oblong, one-cell'd, arm'd with four thorns, in the middle of the side, opposite, expanding, (which were the leaves of the calyx), acute, thick.

158. DORSTÉNIA. † *Plum.* 8. *Houft.* A. A. 421. *t.* 1. 2.

CAL. *Common Receptacle* one-leaved, flat, angular, very large, cover'd with the receptacle, with florets most numerous, inhabiting the disk, very small.

Proper Perianth four-angled, concave, immersed in the receptacle, and coalesced with it.

COR. none.

STAM. *Filaments* four, thread-form, most short. *Anthers* roundish.

PIST. *Germ* roundish. *Style* simple. *Stigma* obtuse.

PER. none. The *common Receptacle* becomes fleshy.

SEEDS solitary, roundish, pointed.

OBS. *Those who see the plant growing and in flower, should observe whether any female florets are mixed with the hermaphrodite ones, as in Parietaria, for Dorstenia seems a middle plant between Parietaria and the Fig, and as it were the Fig expanded.*

1243. COMETES. (*Comet.*)

CAL. *Involucre* three-flower'd, (the flowers sessile) four-leaved: the leaflets oblong, equal, expanded, fringe-hispid.
Perianth four-leaved, leaflets oblong, equal, the length of the involucre.

COR. none.

STAM. *Filaments* four, capillary, the length of the perianth. *Anthers* roundish.

PIST. *Germ* roundish. *Style* thread-form, the length of the flower.
Stigma three-cleft.

PER. *Capsule* three-berried.

SEEDS solitary.

OBs. *A relation of Delechampia.*

NIGRINA. *Thunb. Fl. Jap.*

CAL. none, except a one-leaved bracte.

COR. four-petal'd.

STAM. *Filaments* four, very short. *Anthers* globular, white.

PIST. *Germ* above. *Style* one. *Stigma* - - -

PER. *Fruit* unknown, perhaps a capsule.

SEED. - - -

159. ELÆAGNUS. * *Tournef. 489. Wild-Olive.*

CAL. *Perianth* one-leaved, four-cleft, above, straight, bell'd, rugged externally, colour'd within, deciduous.

COR. none.

STAM. *Filaments* four, very short, inserted beneath the interstices of the calyx. *Anthers* oblong, incumbent.

PIST. *Germ* roundish, beneath. *Style* simple, rather shorter than the calyx. *Stigma* simple.

PER. *Drupe* egg'd, obtuse, smooth, with top dotted.

SEED *Nut* oblong, obtuse.

GONOCÁRPUS. *Thunb. Fl. Jap.*

CAL. none.

COR. four-cleft, permanent.

STAM. *Filaments* four, inserted on the corol.PIST. *Germ* beneath. *Style* one. *Stigma* -PER. *Drupe* beneath, subglobular, crown'd with the permanent corol, eight-corner'd, smooth, one-cell'd, one-seeded, the size of fine sand.

SEED - - -

480. SÁNTALUM. * *Saunders.*CAL. *Perianth*: margin above, four-tooth'd.COR. *Petals* four, sitting on the divisions of the calyx, straighter. *Glands* four, less than the petals, alternate.STAM. *Filaments* four, growing in the tube of the calyx. *Anthers* simple.PIST. *Germ* beneath. *Style* the length of the stamens. *Stigma* simple.

PER. berry.

SEED one.

1244. STRUTHÍOLA. *Sparrowlet.*

CAL. none, unless the corol be so called.

COR. one-petal'd, withering. *Tube* thread-form, elongated. *Border* four-parted, flat, shorter than the tube, with divisions egg'd. *Nectary* eight glands, egg'd, placed round the throat, surrounded with their proper brush.STAM. *Filaments* four, very short, conceal'd within the tube. *Anthers* linear.PIST. *Germ* egg'd. *Style* thread-form, the length of the tube. *Stigma* headed.

PER. leathery, egg'd, one-cell'd.

SEED one, acutish.

OBS. *Allied to the Passerinæ (Sparrow-worts).*

136. MANÉTTIA. *Auth. D. Mutis.*

CAL. *Perianth* eight-leaved: the *leaflets* linear, concave, shaggy, permanent.

COR. one-petal'd, salver-form. *Tube* cylindric, longer than the calyx: plough'd within with four lines: *Border* four-parted, the divisions shorter than the tube, egg'd, obtuse, bearded within. *Nectary*, a margin surrounding the receptacle, most intire, concave.

STAM. *Filaments* four, thread-form, very small, inserted in the throat. *Anthers* linear, incumbent, two-cell'd.

PIST. *Germ* beneath, top-shape, compress'd. *Style* thread-form, declining, the length of the tube. *Stigma* two-cleft, thickish, obtuse.

PER. *Capsule* top-shape, compress'd, furrow'd on both sides, one-cell'd, two-valved, or as if separable into two capsules.

SEEDS few, flat, winged, orbicular with a central seedlet, imbricated to a pulpy oblong pillar.

161. KRAMERIA. *Loefl. it. 195.*

CAL. none, unless the corol be so term'd.

COR. *Petals* four, equal, expanding, oblong, acute: the highest more expanding; the lateral ones egg'd.

Nectaries two: the superior one above, erect, linear, three-parted: the divisions linear, thickish, egg'd at top, membranous. The inferior one beneath, two-leaved, with leaflets linear, convex, elevated, wrinkled.

STAM. *Filaments* four, within the nectary, ascending. *Anthers* small, with two perforations at top.

PIST. *Germ* egg'd. *Style* awl'd, ascending, the length of the stamens. *Stigma* acute.

PER. *Berry* dry, globular, one-cell'd, hedg-hog'd on all sides with rigid hairs bending backwards.

SEED one, egg'd, smooth, hard.

1363. HARTOGIA. *Thunb. S.*

CAL. *Perianth* five-cleft: the divisions roundish, very short.

COR. *Petals* four, expanding, egg'd, obtuse.

STAM. *Filaments* four, very short, inserted on the base of the germ. *Anthers* egg'd, furrow'd.

PIST. *Germ* above, egg'd. *Style* simple, awl'd. *Stigma* acute.

PER. *Drupe* juiceless, egg'd, smooth, ruggedish.

SEED *Nut* two-seeded, rather fleshy.

1193. ACÉNA.

1193. ACENA. D. Mutis.

CAL. *Perianth* four-leaved: the *leaflets* egg'd, concave, equal, permanent.

COR. none, (unless you term the calyx such.)

STAM. *Filaments* four, equal, middle size, opposite to the calyx. *Anthers* quadrangular, twin, erect.

PIST. *Germ* beneath, inverse-egg'd, hispid. *Style* very small, inflected on one side. *Stigma* a small membrane many-cleft, thickish, colour'd.

PER. *Berry* dry, inverse-egg'd, hedge-hog'd with thorns bent backwards, one-cell'd.

SEED one.

OBS. If you suppose the two Bracts under the germ to be a calyx, this calyx will have a corol.

1162. RIVINA. * Rivina Plum. 39. Solonoides. Tournef. A. G. 1706. Piercea. Mill.

CAL. *Perianth* four-leaved, colour'd, permanent: the *leaflets* oblong-egg'd, obtuse.

COR. none, unless you consider the calyx as such.

STAM. *Filaments* four or eight, shorter than the calyx, approaching by pairs, permanent. *Anthers* small.

PIST. *Germ* large, roundish. *Style* very short. *Stigma* simple, obtuse.

PER. *Berry* globular, sitting on the green reflected calyx, one-cell'd, with an incurved point.

SEED one, roundish, lens-form, rugged.

OBS. R. octandra (eight-male) has eight stamens. R.

1364. EMBÓTHRIUM. Forst. gen. n. 8. S.

CAL. none.

COR. four-petal'd, tubular, revolute after fecundation. *Petals* linear, oblique: the top broader, stamen-bearing.

STAM. *Anthers* four, sessile, or sitting on very short filaments, inserted on the top of the petals, largish.

PIST. *Germ* linear, ascending, inflected. *Style* none. *Stigma* roundish, large, flat before.

PER. *Follicle* columnar, one-cell'd.

SEEDS very numerous, egg'd compress'd, wing'd on one margin with a membrane.

163. SALVADÓRA. † *Garcin. A. Angl.*CAL. *Perianth* one-leaved, four-cleft, with lobes revolute.

COR. none.

STAM. *Filaments* four, the length of the calyx, reflected. *Anthers* round.PIST. *Germ* roundish. *Style* one, short. *Stigma* simple, obtuse, navel'd.PER. *Berry* globular, one-cell'd.

SEED one, spherical, cloathed with a callous aril.

164. CAMPHORÓSMA. † *Champhorata Tournef.*
1705. *Auctore. Cl. de Sauvages. Camphor- odour.*CAL. *Perianth* pitcher'd, half-four-cleft, compress'd, permanent; the segments acute: the opposite ones largish, recurvate.

COR. none.

STAM. *Filaments* four, thread-form, equal. *Anthers* oval.PIST. *Germ* egg'd, compress'd. *Style* thread-form, half-two-cleft, longer than the calyx. *Stigmas* acute.PER. *Capsule* one-cell'd, gaping above, cover'd by the calyx.

SEED one, oval, compress'd, glossy.

OBS. Cal. four-leaved: the two larger leaflets keel'd: the two lesser ones flat. Stam. four shorter than the calyx. Styles two, longer than the calyx. Linn.

165. ALCHEMÍLLA. * *Alchimilla. Tournef. 289.*
*Ladies Mantle.*CAL. *Perianth* one leaved, tubular, permanent: the mouth flat, eight-parted: the alternate divisions less.

COR. None.

STAM. *Filaments* four, erect, awl'd, very small, placed in the mouth of the calyx. *Anthers* roundish.PIST. *Germ* egg'd. *Style* thread-form, the length of the stamens, inserted at the base of the Germ. *Stigma* globular.

PER. none. Neck of the Calyx closed, neither gaping.

SEED solitary, elliptic, compressed.

II. TWO

II. TWO FEMALES.

(Digynia.)

166. APHANES. (*Invisibilibity*) * Percepier *Dill.*
gen. 3.

CAL. *Perianth* one-leaved, tubular, permanent: the *mouth* flat, four-cleft; the divisions alternate very small.

COR. none.

STAM. *Filaments* four, erect, awl'd, very small, placed on the mouth of the calyx. *Anthers* roundish.

PIST. *Germ* two, egg'd. *Styles* thread-form, the length of the stamens, inserted on the germs at the base. *Stigmas* headed.

PER. none. The *Calyx* containing the seeds in its bottom, converging at the mouth.

SEEDS two, egg'd, pointed, compress'd, the length of the style.

OBS. *It approaches very nearly to the Alchemilla, differs in the Pistil, and the single seed.*

167. CRUCITA. *Loefl.*

CAL. *Perianth* three leaved: (the anterior leaf linear, acute; the lateral ones egg'd, concave,) permanent.

COR. *Petals* four, with the appearance of a calyx, egg'd, concave: the two exterior ones most entire; the interior ones with margin very thin, lacerated.

STAM. *Filaments* four, capillary, rather shorter than the calyx; *Anthers* small.

PIST. *Germ* egg'd, obtuse, compress'd. *Style* very short, two-parted with divisions expanding. *Stigmas* simple.

PER. none. The *Corol* converging, deciduous with the seed.

SEED one, naked.

OBS. *The Author now calls the corol the interior four-leaved calyx; and the perianth the exterior three-leaved calyx. Hence there is no corol.* Syft. Veg. R.

168. BUFONIA. † *Sauvages*, *Alsinoides Raji*.

CAL. *Perianth* four-leaved, erect, permanent; the *leaflets* awl'd, keel'd with membranous margins.

COR. *Petals* four, oval, end-nick'd, erect, equal, shorter than the calyx.

STAM. *Filaments* four, equal, the length of the germ. *Anthers* twin.

PIST. *Germ* egg'd, compress'd, *Styles* two, the length of the stamens, *Stigmas* simple.

PER. *Capsule* oval, compress'd one-cell'd, two-valved.

SEEDS two, oval, compress'd with a knot, convex on one side.

OBS. *P. Loeffling* had observed four stamens, but afterwards he retracted; yet *Alstræmer* always attentively saw four stamens; *Gerard* sometimes two, seldom three, often four.

169. HAMAMELIS. † *Trilopus*, *Mitch.* 22.
Witch hazel.

CAL. *Involucre* three-leaved, three-flower'd: the two interior *leaflets* roundish, less, obtuse; the third outmost, larger, lanced. *Perianth* double: the exterior one two-leaved, less, roundish; the interior four-leaved erect: the *leaflets* oblong, obtuse, equal.

COR. *Petals* four, linear, equal, very long, obtuse, reflected. *Nectary* with *leaflets* four, lop'd, growing to the corol.

STAM. *Filaments* four, linear, shorter than the calyx. *Anthers* two-horned, inflected.

PIST. *Germ* egg'd, villous, ending in two styles, the length of the stamens. *Stigmas* headed.

PER. none.

SEED *Nut* egg'd, half-cover'd by the calyx, obtuse, furrow'd on both sides at top, two-horn'd with hornlets horizontal, two-cell'd, two valved.

OBS. *This shrub certainly inclines to the class Polygamy, for the Virginian one is of the class Two-house, and the Caroline one of the class One-house. Are they distinct species? I doubt from the similitude of the herb. Mant. 333. R.*

170. CUS-

170. CUSCUTA. * *Tournef*, 422. *Dodder*.

CAL. *Perianth* one-leaved, cup-form, half-fourcleft, obtuse, fleshy at the base.

COR. one petal'd, egg'd, rather longer than the Calyx : the *Mouth* four-cleft, obtuse.

Nectary of four Scales, linear, two-cleft, acute, adjoined to the corol at the base of the stamens.

STAM. *Filaments* four, awl'd, the length of the calyx. *Anthers* roundish.

PIST. *Germ* roundish. *Styles* two, erect, short. *Stigmas* simple.

PER. fleshy, roundish, two-cell'd, circumcised.

SEEDS two.

OBS. *In some a fifth part is added to the parts of the fructification.*

171. HYPÉCOUM. (*Resounding*) * *Tournef*. 115.

CAL. *Perianth* two-leaved, small; the *leaflets* egg'd, acute, erect, opposite, deciduous.

COR. four-petal'd. The *two exterior petals* opposite, broader, three-lob'd, obtuse: the *two interior petals* alternate with the exterior, half-three-cleft: *middle division* concave, compress'd, erect.

STAM. *Filaments* four, awl'd, erect, cover'd by the middle division of the inmost petals. *Anthers* erect, oblong.

PIST. *Germ* oblong, cylindric. *Styles* two, very short. *Stigmas* acute.

PER. *Silique* long, incurved, jointed.

SEEDS solitary in each joint of the pericarp, globe-compress'd.

OBS. *The stamens of H. erectum (erect) seem to be of the class Four-powers. R.*

1365. GOMÓZIA. *Mutis. gen. S.*

CAL. none.

COR. above, one petal'd, bell'd. *Tube* very short, thread-form, slender. *Border* bell'd, four-cleft at the middle. *Divisions* lanced, recurvate.

STAM. *Filaments* four, equal, inserted in the base of the corol, thread-form. *Anthers* globular, angular.

PIST. *Germ* beneath, oblong, columnar, the size of the corol. *Styles* two, thread-form, nearly conjoin'd at the base, smooth. *Stigmas* oblong, simple, attenuated, divaricated, villous.

PER. *Berry* two-cell'd, the figure of the germ.

SEEDS very numerous.

III. FOUR FEMALES.

(Tetragýnia.)

172. ILEX. * Aquifolium Tournef. 371. Dodonæa.
 Plum, 12. Holly.

CAL. Perianth four-tooth'd, very small, permanent.

COR. one-petal'd, four-parted, wheel'd; the divisions roundish, concave, expanding, largish, with cohering claws.

STAM. Filaments four, awl'd, shorter than the corol. Anthers small.

PER. Germ roundish. Style none. Stigmas four, obtuse.

PER. Berry roundish, four-cell'd.

SEEDS solitary, bony, oblong, obtuse, gibbous on one side, angular on the other.

OBS. Dodonæa Pl. excludes one fourth part of the number in every part of the fructification; hence the flower three-cleft; Is it a real species of this?

173. COLDÉNIA. †.

CAL. Perianth four-leaved: leaflets lanced, erect, the length of the corol.

COR. one-petal'd, funnel-form: the Border spreading, obtuse.

STAM. Filaments four, inserted in the tube. Anthers roundish.

PIST. Germs four, egg'd. Styles as many, capillary, the length of the stamens. Stigmas simple, permanent.

PER. none. Fruit egg'd, compress'd, rugged, pointed, terminated with four beaks.

SEEDS two, murex'd, two-cell'd.

174. POTAMOGETON. (River-side) * Tournef. 103. Pond-weed.

CAL. none.

COR. Petals four, roundish, obtuse, concave, erect, claw'd, deciduous.

STAM. Filaments four, flat, obtuse, very short. Anthers twin, short.

PIST. Germs four, egg-pointed. Style none. Stigmas obtuse.

PER. none.

SEEDS four, roundish, pointed, gibbous on one side, compress'd and angular on the other.

175. RUP-

175. RUPPIA. * *Bucca ferrea*. *Mich*. 35.

CAL. *Spathe* scarcely any besides the sheathes of the leaves.
Spadix awl'd, most simple, straight, incurved when the fruit ripens, doubly guarded by the fructification.
Perianth none.

COR. none.

STAM. *Filaments* none. *Anthers* four, sessile, equal, roundish, mostly twin.

PIST. *Germ*s four or five, nearly egg'd, converging. *Style* none. *Stigmas* obtuse.

PER. none. The Seeds fit on proper thread-form pedicels, the length of the fruit.

SEEDS four or five, egg'd, oblique, terminated by a flat orbicular stigma.

176. SAGINA. * *Alfinella* *Dill. gen.* 6. *Pearl-wort*.

CAL. *Perianth* four-leaved: the leaflets egg'd, concave, most expanding, permanent.

COR. *Petals* four, egg'd, obtuse, shorter than the calyx, expanding.

STAM. *Filaments* four, capillary. *Anthers* roundish.

PIST. *Germ* subglobular. *Styles* four, awl'd, recurved, pubescent. *Stigmas* simple.

PER *Capsule* egg'd, straight, four-cell'd, four-valved.

SEEDS numerous, very small, affixed to the receptacle.

OBS. *S. procumbens* (*procumbent*) varies with flowers, corol'd and petellefs.

S. apetala (*petallefs*) has no petals.

S. erecta (*erect*) has the leaflets of the calyx lanced, pointed. R.

S. virginica (*virginian*) equally differs somewhat from its congeners. R.

177. TILLÆA. * *Mich* 20.

CAL. *Perianth* four-parted, flat: the divisions egg'd, large.

COR. *Petals* four, egg'd, acute, flat, something less than the calyx.

STAM. *Filaments* four, simple, shorter than the corol. *Anthers* small.

PIST. *Germ*s four. *Styles* simple. *Stigmas* obtuse.

PER. *Capsules* four, oblong, pointed, reflected, the length of the flower, gaping upwards longitudinally.

SEEDS two, egg'd.

OBS. Of *T. muscosa* (*mos*s) the parts of the fructification are three'd.

178. MYGÍNDÁ. † *Jacq. amer.* 24.CAL. *Perianth* four-parted, very small, permanent.COR. *Petals* four, roundish, flat, most expanding.STAM. *Filaments* four, awl'd, erect, shorter than the corol. *Anthers* roundish.PIST. *Germ* roundish. *Styles* four, erect, short. *Stigmas* acute.PER. *Drupe* globular.SEED. *Nut* egg'd, acute.

C L A S S V.

FIVE MALES.

(Pentándria.)

I. ONE FEMALE.

(Monogýnia.)

179 Heliotrópium.	200 Dodecátheon.
180 Myosótis.	201 Cýclamen.
181 Lithospérmum.	202 Menyánthes.
182 Anchúsa.	Doræna.
183 Cynoglóssum.	203 Hottónia.
184 Pulmonária.	204 Hydrophýllum.
185 Sýmphytum.	244 Ellísia.
186 Cerínthe.	205 Lyfimàchia.
187 Onófsma.	206 Anagállis.
188 Borágo.	207 Theophrásta.
189 Asperúgo.	1368 Rétzia.
190 Lycópsis.	209 Spigélia.
191 Échium.	210 Ophiorhíza.
245 Messerschmídia.	1336 Virécta.
192 Tournefórtia.	1248 Lisiánthus.
193 Nolána.	211 Rándia.
194 Diapénfia.	1367 Scheffiéldia.
195 Arétia.	212 Azáleá.
196 Andróface.	1369 Epácris.
197 Prímula.	Wigéla.
198 Cortúsa.	213 Plumbágo.
199 Soldanélla.	1371 Téctona.
	1246 Nigrína.

1246 Nigrína.
 214 Phlóx.
 1339 Porána.
 215 Convólvulus.
 216 Ipomœa.
 217 Polemónium.
 218 Campánula.
 219 Roélla.
 220 Phytheúma.
 221 Trachélium.
 222 Sámolus.
 223 Nauclea.
 224 Rondelétia.
 225 Macrocnémum.
 226 Bellónia.
 227 Portlándia.
 1294 Scævola.
 228 Cinchóna.
 229 Psychótria.
 230 Coffea.
 231 Chiococca.
 232 Haméllia.
 233 Lonicéra.
 234 Triósteum.
 235 Morínda.
 236 Conocárpus.
 237 Kúhnia.
 238 Erithális.
 239 Menáis.
 241 Mussända.
 1231 Mathíola.
 242 Mirábilis.
 243 Córís.

1229 Broffæa.
 245 Verbáscum.
 246 Datúra.
 247 Hyoscýamus.
 248 Nicotíana.
 249 Átropá.
 250 Phýsalis.
 251 Solánium.
 252 Cápficum.
 253 Strýchnos.
 240 Génipa.
 1370 Ignátia.
 291 Céstrum.
 262 Lýcium.
 254 Jacquínia.
 255 Chirónia.
 256 Córdia.
 258 Patagónula.
 257 Ehretia.
 258 Varrónia.
 259 Laugéria.
 260 Brunsféllia.
 263 Chrysophýllum.
 264 Sideróxylum.
 265 Rhámnus.
 266 Phýlica.
 267 Ceanóthus.
 1250 Arduína.
 268 Buttnéria.
 269 Myrsíne.
 Bladhia.
 270 Celástrus.
 271 Euónymus.

272 Diófina.

272 Dióſma.
 Hovénia.
 274 Brúnia.
 1247 Cyrílla.
 275 Ítea.
 276 Gáſax.
 277 Cédrela.
 1372 Eſcallónia.
 1373 Corynocárpus.
 1374 Argophýllum.
 278 Mangífera.
 280 Hirtélla.
 1249 Plectrónia.
 281 Ríbes.
 282 Gronóvia.
 1296 Áquilícia.
 283 Hédera.
 284 Vítis.
 285 Lagoécia.
 1234 Rorídula.
 286 Sauvagéſia.
 287 Claytónia.
 1297 Helicónia.
 288 Achyránthes.
 289 Celóſia.
 290 Illécebrum.
 291 Glaúx.
 292 Théſium.
 293 Rauvólfia.
 1252 Pæderia.
 1251 Caríſſa.
 294 Cérbera.
 296 Gardénia.

1295 Allamánda.
 295 Vínca.
 297 Nérium.
 299 Echítes.
 298 Pluméria.
 300 Camerária.
 301 Tabérnæmontána.
 302 Ceropégia.

II. TWO FEMALES.

(*Digýnia.*)

1253 Pergulária.
 1375 Melódinus.
 303 Períploca.
 304 Cynánchum.
 305 Apócynum.
 306 Aſclépias.
 307 Staphélia.
 1208 Lincónia.
 308 Herniária.
 309 Chenopódium.
 310 Béta.
 311 Sálſola.
 312 Anábafis.
 313 Créſſa.
 1254 Stéris.
 314 Gomphréna.
 315 Boſéa.
 316 Úlmus.
 317 Náma.
 318 Hydrólea.

319 Schrebéra.

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|------|----------------|------|---------------|
| 319 | Schrebéra. | 348 | Síum. |
| 320 | Heuchéra. | 349 | Síson. |
| 447 | Velézia. | 350 | Búbón. |
| 321 | Schivértia. | 351 | Cumínium. |
| 322 | Gentiána. | 352 | Oenánthe. |
| 1376 | Ruffélia. | 353 | Phellándrium. |
| | Bumálda. | 354 | Cicúta. |
| 323 | Phýllis. | 355 | Æthúfa. |
| 324 | Eryngium. | 356 | Coriándrum. |
| 325 | Hydrocótyle. | 357 | Scándix. |
| 326 | Sanícula. | 358 | Chærophýllum. |
| 327 | Astrántia. | 359 | Imperatória. |
| 328 | Bupleúrum. | 360 | Séfeli. |
| 329 | Echinóphora. | 361 | Thápsia. |
| 1377 | Coprófma. | 362 | Pastináca. |
| 341 | Hasselquístia. | 363 | Smýrniúm. |
| 330 | Tordýlium. | 364 | Anéthum. |
| 331 | Caúcalis. | 365 | Cárum. |
| 332 | Artédia. | 366 | Pimpinélla. |
| 333 | Daucus. | 1378 | Cusfónia. |
| 334 | Ámmi. | 367 | Ápium. |
| 335 | Búnium. | 368 | Ægopódium. |
| 336 | Coníum. | | |
| 337 | Selínium. | | |
| 338 | Athamánta. | | |
| 339 | Peucedanum. | | |
| 340 | Críthmum. | | |
| 342 | Cáchrys. | | |
| 343 | Férula. | | |
| 344 | Laserpítium. | | |
| 345 | Heracléum. | | |
| 346 | Ligústicum. | | |
| 347 | Angélica. | | |

III. THREE FEMALES.

(Trigýnia.)

- | | |
|------|-------------|
| 1379 | Semecárpus. |
| 369 | Rhús. |
| 370 | Vibúrnum. |
| 371 | Cassíne. |
| 372 | Sambucus. |
| 373 | Spathélia. |
| 374 | Staphylæa. |

375 Tamarix.

- 375 Támarix.
 1299 Xylophýlla.
 376 Turnéra.
 377 Teléphiúm.
 378 Corrigíola.
 379 Pharnacéum.
 380 Alfíne.
 381 Drypis.
 382 Basélla.
 383 Saróthra.

IV. FOUR FEMALES.

(*Tetragýnia.*)

- 384 Parnássia.
 385 Evólvlus.

V. FIVE FEMALES.

(*Pentagýnia.*)

- 386 Arália.
 1380 Commerfónia.

- 388 Státice.
 389 Línúm.
 390 Aldrouánda.
 391 Drófera.
 1340 Giséckia.
 392 Cráßfula.
 1255 Mahérnia.
 393 Sibbáldia.

VI. MANY FEMALES.

(*Polygýnia.*)

- 394 Myofúrus.

FIVE MALES.

(*Pentándria.*)

I. ONE FEMALE.

(*Monogýnia.*)179. HELIOTROPIUM (*Sun-turning.*) * *Tournef. 57. Turn-sole.*

- CAL. *Perianth* one-leaved, tubular, five-tooth'd, permanent.
 COR. one petal'd, falver-form. *Tube* the length of the calyx. *Border* flat, half-fivecleft, obtuse: the less *divisions* alternate, acuter, the larger ones interjacent. *Throat* naked.
 STAM. *Filaments* five, very short, in the throat. *Antthers* small, cover'd.
 PIST. *Germes* four. *Style* thread-form, the length of the stamens. *Stigma* end-nick'd.
 PER. none, *Calyx* erect, unchanged, cherishing the seeds in its bosom.
 SEEDS four, egg'd, pointed.

180. MYOSOTIS. * (*Mouse-ear.*) *Dill. gen. 3.*

- CAL. *Perianth* half-fivecleft, oblong, erect, acute, permanent.
 COR. one-petal'd, falver-form. *Tube* cylindric, short. *Border* half-fivecleft, flat; the *divisions* end-nick'd, obtuse. *Throat* closed with five *scalelets*, convex, prominent, converging.
 STAM. *Filaments* five, in the neck of the tube, very short. *Antthers* very small, covered.
 PIST. *Germes* four. *Style* thread-form, the length of the tube of the corol. *Stigma* obtuse.
 PER. none. *Calyx* large, erect, cherishing the seeds in its bosom.
 SEEDS four, egg'd, pointed, smooth.
 OBS. *There are some species with polish'd seeds, others with hook'd prickles.*

181. LI-

181. LITHOSPÉRMUM. (*Stone-seed*) * *Tournef.* 55.
Grumwell.

- CAL. *Perianth* five-parted, oblong, straight, acute, permanent: the divisions, awl'd, keel'd.
- COR. one-petal'd, funnel-form, the length of the calyx. *Tube* cylindric. *Border* half-fivecleft, obtuse, erect. *Throat* perforated, naked.
- STAM. *Filaments* five, very short. *Anthers* oblong, in the throat of the corol.
- PIST. *Germes* four. *Style* thread-form, the length of the tube of the corol. *Stigma* obtuse, two-cleft.
- PER. none. *Calyx* expanded, containing in its bosom the seeds, than which it is longer.
- SEEDS four, egg-pointed, hard, smooth.
- OBS. *L. dispernum* (*two-seeded*) hath only two seeds one-cell'd and a calyx as it were inflated.

182 ANCHÚSA. * *Buglossum* (*Ox-tongue*) *Tournef.* 53. *Bugloss.*

- CAL. *Perianth* five-parted, oblong, columnar, acute, permanent.
- COR. one-petal'd, funnel-form. *Tube* cylindric, the length of the calyx. *Border* half-fivecleft, erect-expanding, obtuse. *Throat* closed with five *scalelets*, convex, prominent, oblong, converging.
- STAM. *Filaments* five, very short, in the throat of the corol. *Anthers* oblong, incumbent, covered.
- PIST. *Germes* four. *Style* thread-form, the length of the stamens. *Stigma* obtuse, end-nick'd.
- PER. none. *Calyx* larger, erect, containing the Seeds in its bosom.
- SEEDS four, oblongish, obtuse, gibbous.

183. CYNAGLOSSUM. * (*Hound's-tongue*) Tournef.

57. Omphalodes. Tournef. 58. Navel-wort.

CAL. *Perianth* five-parted, oblong, acute, permanent.COR. one-petal'd, funnel-form, the length of the calyx. *Tube* cylindric, shorter than the border. *Border* half-five-cleft, obtuse. *Throat* closed with five *scalelets*, convex, prominent, converging.STAM. *Filaments* five, very short, in the throat of the corol. *Anthers* roundish, naked.PIST. *Germes* four. *Style* awl'd, the length of the stamens, permanent. *Stigma* end-nick'd.PER. none, but the four *Arils* of the seeds, depress'd, roundish, obtuse, outwards, rugged, not gaping, flattish on the exterior side, affix'd at the top.

SEEDS as many, rather egg'd, gibbous, pointed, smooth.

OBS. The Essence of the Genus consists in four one-seeded *Arils* affixed to the style.*Omphalodes* of T. differs in the 5, 6, 7 *Arils* being naked not *hedg-hog-hook'd*.184. PULMONARIA. * (*Lung-wort*) Tournef. 55.*Cerinthoides* *Wax-flower-like*.
Boerk.CAL. *Perianth* one-leaved, five-tooth'd, five-corner-prism'd, permanent.COR. one-petal'd, funnel-form. *Tube* cylindric, the length of the calyx. *Border* half five-cleft, obtuse, erect-expanding. *Throat* pervious.STAM. *Filaments* five, in the throat, very short. *Anthers* erect, converging.PIST. *Germes* four. *Style* thread-form, shorter than the calyx. *Stigma* obtuse, end-nick'd.PER. none. *Calyx* unchanging, cherishing the seeds in its bottom.

SEEDS four, roundish, obtuse.

OBS. *Cerinthoides* of B. was distinguished by the *Calyx* being shorter than the tube of the corol.

185. SYMPHYTUM. * *Tournef. 56. Comfrey.*

CAL. *Perianth* five-parted, erect, five-corner'd, acute, permanent.
 COR. one-petal'd, bell'd. *Tube* very short. *Border* tube-bellied, rather thicker than the tube: the *mouth* five-tooth'd, obtuse, reflected. *Throat* fenced with five rays, awl'd, shorter than the border, converging into a cone.

STAM. *Filaments* five, awl'd, alternate with the rays of the throat. *Anthers* acute, erect, cover'd.

PIST. *Germ* four, *Style* thread-form the length of the corol. *Stigma* simple.

PER. none. *Calyx* larger, amplified.

SEEDS four, gibbous, pointed, converging with their tops.

186. CERINTHE. * (*Wax-flower.*) *Tournef. 56. Honey-wort.*

CAL. *Perianth* five-parted; the *divisions* oblong, equal, permanent.
 COR. one-petal'd, bell'd. *Tube* short, thick. *Border* tube-bellied, little thicker than the tube: the *mouth* five-cleft. *Throat* naked, pervious.

STAM. *Filaments* five, awl'd, very short. *Anthers* acute, erect.

PIST. *Germ* four-parted. *Style* thread-form, the length of the *stamens*. *Stigma* obtuse.

PER. none. *Calix* unchang'd.

SEEDS two, bony, shining, rather egg'd, gibbous outwards, two-cell'd.

187. ONOSMA. *Afs-scent.*

CAL. *Perianth* five-parted: the *divisions* lanced, erect, permanent.
 COR. one-petal'd, bell'd. *Tube* very short. *Border* tube-bellied, rather thicker than the tube: the *mouth* rather five-cleft, *Throat* naked, pervious.

STAM. *Filaments* five, awl'd, very short. *Anthers* arrow'd, erect, the length of the corol.

PIST. *Germ* four-parted. *Style* thread-form, the length of the corol. *Stigma* obtuse.

PER. none. *Calyx* unchanged.

SEEDS four, egg'd.

188. BORÁGO. * *Tournef.* 53. *Boraginoides*, *Boerb.*
I. 88. *Cynoglossoides* *Isnard.* A. G.
1718. t. 10. *Borage.*

CAL. *Perianth* five-parted, permanent.

COR. one-petal'd wheel'd, the length of the calyx. *Tube* shorter than the calyx. *Border* five-parted, wheel'd, flat. *Throat* crown'd: the *prominencies* five, end-nick'd, obtuse.

STAM. *Filaments* five, awl'd, converging. *Anthers* oblong, affixed in the middle to the interior side of the filaments, converging.

PIST. *Germes* four. *Style* thread-form, longer than the stamens. *Stigma* simple.

PER. none. *Calyx* larger, inflated.

SEEDS four, roundish, wrinkled, keel'd outwards at top, gibbous at base, inserted longitudinally into the excavated receptacle.

OBS. *The divisions of the calyx are different as to figure, and the tube of the corol as to magnitude.*

189. ASPERUGO. * (*Roughness.*) *Tournef.* 54.
Goose-grass.

CAL. *Perianth* one-leaved, five-cleft, erect with unequal toothlets; permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, very short. *Border* half-fivecleft, obtuse, small. *Throat* closed: with *Scalelets* five, convex, prominent, converging.

STAM. *Filaments* five, in the throat, very short. *Anthers* oblongish, cover'd.

PIST. *Germes* four, compress'd. *Style* thread-form, short. *Stigma* obtuse.

PER. none. *Calyx* very large, erect, compress'd: the foldlets flat-parallel, sinuous.

SEEDS four, oblong, compress'd, distant by pairs.

OBS. *A egyptiaca (egyptian) hath the calyx of the fruit bellied, a little compress'd.* R.

190. LYCÓPSIS. (*Wolf's-face.*) * Echioides. Dill.
gen. 3.

CAL. *Perianth* five-parted: the *divisions* oblong, acute, spreading, permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, curve-bended. *Border* half-fivecleft, obtuse. *Throat* closed; with five *Scalets*, convex, prominent, converging.

STAM. *Filaments* five, very small, at the flexure of the tube of the corol. *Anthers* small, cover'd.

PIST. *Germes* four. *Style* thread-form, the length of the *stamens*. *Stigma* obtuse, two-cleft.

PER. none. *Calyx* very large, inflated.

SEEDS. four, longish.

OBS. The essence of this genus consists in the curvature of the tube of the corol.

191. ÉCHIU. * (*Viper.*) Tournef. 54. *Viper's-Bugless.*

CAL. *Perianth* five-parted, erect, permanent: the *divisions* awl'd, erect.

COR. one-petal'd, bell'd. *Tube* very short. *Border* erect, gradually enlarg'd, five-cleft, obtuse: the *divisions* oftner unequal; the two superior ones longer, the *lowest* less, acute, reflected. *Throat* pervious.

STAM. *Filaments* five, awl'd, the length of the corol, declining, unequal. *Anthers* oblong, incumbent.

PIST. *Germes* four. *Style* thread-form, the length of the *stamens*. *Stigma* obtuse, two-cleft.

PER. none. *Calyx* rigider, cherishing the seeds in its bosom.

SEEDS four, roundish, obliquely pointed.

OBS. *E. lævigatum* (polished) and *italicum* (italian) have corols nearly equal. The *stamens* and *style* are different as to length. R.

1245. MESSERSCHMIDIA.

CAL. *Perianth* one leaved, five-parted: the *divisions* sublinear; erect, permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, rude, longer than the calyx, globular at the base. *Border* five-cleft, plaited, membranous on the sides. *Throat* naked.

STAM. *Filaments* five, minute, in the inferior part of the tube. *Anthers* awl'd, erect, within the middle of the tube.

PIST. *Germ*s rather egg'd. *Style* cylindric, very short, permanent. *Stigma* headed, egg'd.

PER. *Berry* dry, corky, cylinder-rounded, (the navel retuse, girt with four obtuse teeth) two-partible.

SEEDS two within each part of the pericarp, oblong, bony, incurved, rounded without, angular within.

192. TOURNEFORTIA. * Pittonia. Plum. 3.

CAL. *Perianth* five-parted, small: the *divisions* awl'd, permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, globular at the base. *Border* half-fivecleft, expanding: the *divisions* pointed, horizontal, gibbous in the middle.

STAM. *Filaments* five, awl'd, at the throat of the corol. *Anthers* simple, in the throat of the corol, converging, pointed.

PIST. *Germ* globular, above. *Style* simple, the length of the stamens, club'd. *Stigma* circumcised, intire.

PER. *Berry* globular, two-cell'd, perforated with two pores at top.

SEEDS. four, rather egg'd, separated by pulp.

193. NOLANA. *

CAL. *Perianth* one-leaved, top-shape at the base, five-parted, five-angled: the *divisions* hearted, acute, permanent.

COR. one-petal'd, bell'd, plaited, expanding, rather five-lobed, twice as large as the calyx.

STAM. *Filaments* five, awl'd, erect, equal, shorter than the corol. *Anthers* arrow'd.

PIST. *Germ*s five, roundish. *Style* between the germs, cylindric, straight, the length of the stamens. *Stigma* headed.

PER. properly none.

SEEDS five, with a succulent bark, roundish, (the interior base naked immersed in the receptacle,) two and four-cell'd.

194. DIAPÉNSIA. * *Fl. lapp.* 1.

CAL. *Perianth* eight-leaved: the five interior leaflets placed in an orb, the rest imbricate-wise incumbent, all equal, egg'd, obtuse, erect, permanent.

COR. one-petal'd, falver-form. *Tube* cylindric, open, the length of the calyx. *Border* five-cleft, obtuse, flat.

STAM. *Filaments* five, line-compress'd, erect, at the gashes of the border terminating the tube, short. *Anthers* simple.

PIST. *Germ* roundish. *Style* cylindric, the length of the stamens. *Stigma* obtuse.

PER. *Capsule* roundish, three-cell'd, three-valved.

SEEDS very numerous, roundish.

195. ARÉTIA. * † *Hall. herb. t. 8. f. 1.*

CAL. *Perianth* one-leaved, bell'd, half-fivecleft, obtusish, permanent.

COR. one-petal'd, falver-form. *Tube* egg'd, the length of the calyx, contracted in the neck. *Border* five parted: the divisions inverse-egg'd.

STAM. *Filaments* five, conic, in the middle of the tube, very short. *Anthers* erect, acutish, within the throat of the corol.

PIST. *Germ* roundish. *Style* thread-form, the length of the tube. *Stigma* head-depress'd.

PER. *Capsule* one-cell'd, five-valved.

SEEDS five. *Jacq.*

Obs. *The Botanists of Vallesia attentively described the fruit, that the certainty of the genus might be established. It seems distinguished from Androsace by the habit, the plant steming, with simple peduncles; a most rare plant.*

The seeds are three and five. R.

196. ANDRÓSACE. * *Tournef.* 46.

CAL. *Involucre* many-leaved, many-flower'd, very small. *Perianth* one-leaved, five-corner'd, half-fivecleft, acute, erect, permanent.

COR. one-petal'd, salver-form. *Tube* egg'd, involved in the calyx. *Border* flat, five-parted: the *divisions* egg-oblong, obtuse, intire. *Throat* beset with glands.

STAM. *Filaments* five, very short, in the tube of the corol. *Anthers* oblong, erect, included.

PIST. *Germ* globular. *Style* thread-form, very short. *Stigma* globular, included.

PER. *Capsule* globular, sitting on the flat calyx, one-cell'd, gaping five ways at top.

SEEDS very numerous, roundish, gibbous on one side, flat on the other. *Receptacle* erect, free.

OBS. *A. maxima*, (*great*) differs in its very large expanding *Perianths*.

197. PRIMULA. * *Primula Veris Tournef.* 47.
Auricula Ursi Bear's-ear. *Tournef.* 46. Cowslip. Primrose.

CAL. *Involucre* many-leaved, many-flower'd, very small. *Perianth* one-leaved, tubular, five-corner'd, five-tooth'd, acute, erect, permanent.

COR. one-petal'd, *Tube* cylindric, the length of the calyx, terminated by a small, hemispheric neck. *Border* expanding, half-fivecleft: the *divisions* inverse-hearted, end-nick'd, obtuse. *Throat* pervious.

STAM. *Filaments* five, very short, within the neck of the corol. *Anthers* pointed, erect, converging, included.

PIST. *Germ* globular. *Style* thread-form, the length of the calyx. *Stigma* globular.

PER. *Capsule* columnar, nearly the length of the *Perianth*, cover'd, one-cell'd, gaping with a ten-tooth'd top.

SEEDS numerous, roundish. *Receptacle* egg-oblong, free.

198. COR-

198. CORTUSA. * Boerb.

CAL. *Perianth* five-cleft, expanding, very small, permanent: the *divisions* lanced, three-tooth'd.

COR. one-petal'd, wheel'd. *Tube* scarcely any. *Border* flat, five-parted, ample: the *divisions* egg'd, acute. *Throat* with an elevated ring.

STAM. *Filaments* five, obtuse. *Anthers* two-folded, oblong, erect, affixed by the exterior part.

PIST. *Germ* egg'd. *Style* thread-form, longer than the corol. *Stigma* rather headed.

PER. *Capsule* oval, pointed, half-fivevalved.

SEEDS numerous, compress'd, angular.

199. SOLDANELLA. * Tournef. 16.

CAL. *Perianth* five-parted, straight, permanent: the *divisions* lanced.

COR. one-petal'd, bell'd, gradually enlarged, straight: the *mouth* many-cleft-torn, acute.

STAM. *Filaments* five, awl'd. *Anthers* simple, arrow'd.

PIST. *Germ* roundish. *Style* thread-form, the length of the corol, permanent. *Stigma* simple.

PER. *Capsule* oblong, columnar, obliquely striated, one-cell'd, gaping with a many tooth'd-top.

SEEDS numerous, pointed, very small. *Receptacle* columnar, free.

200. DODECATHEON. * Twelve-divinities.

American Cowslip.

CAL. *Involucre* many-leaved, many-flower'd, very small. *Perianth* one-leaved, half-fivecleft, permanent: the *divisions* reflected, afterwards longer, permanent.

COR. one-petal'd, five-parted. *Tube* shorter than the calyx. *Border* reflected: the *divisions* very long, lanced.

STAM. *Filaments* five, very short, obtuse, sitting on the tube. *Anthers* arrow'd, converging into a beak.

PIST. *Germ* conic. *Style* thread-form, longer than the stamens. *Stigma* obtuse.

PER. *Capsule* oblong, one-cell'd, gaping at top.

SEEDS very numerous, small *Receptacle* free, small.

201. CY-

201. CYCLAMEN. (*Circle.*) * *Tournef.* 68.
Sow-bread.

- CAL. *Perianth* half-fivecleft, roundish, permanent: the *divisions* egg'd.
 COR. one-petal'd. *Tube* subglobular, twice as large as the calyx, small, nodding. *Border* reflected upwards, five-parted, very large: the *divisions* lanced the *Neck* prominent.
 STAM. *Filaments* five, very small, in the tube of the corol. *Anthers* straight, acute, in the neck of the corol, converging.
 PIST. *Germ* roundish. *Style* thread-form, straight, longer than the stamens. *Stigma* acute.
 PER. *Berry* globular, one-cell'd, gaping five-ways at top, cover'd with a capsular shell.
 SEEDS very numerous, rather egg'd, angular. *Receptacle* egg'd, free.

202. MENYANTHES. (*Moon-flower.*) * *Tournef.* 15.
Nymphoides Tournef. 67.
Bog-bean, Marsh Trefoil.

- CAL. *Perianth* one-leaved, five-parted, erect, permanent.
 COR. one-petal'd, funnel-form. *Tube* cylinder-funnel-form, short. *Border* five-cleft beyond the middle: the *divisions* reflex-expanding, obtuse, adorned with shagg.
 STAM. *Filaments* five, awl'd, short. *Anthers* acute, two-cleft at the base, erect.
 PIST. *Germ* conic. *Style* cylindric, nearly the length of the corol. *Stigma* two-cleft, compress'd.
 PER. *Capsule* egg'd, surrounded by the calyx, one-cell'd.
 SEEDS. very numerous, egg'd, small.
 OBS. *The Nymphoides of T. was distinguish'd by the fringed petals, not shaggy on the upper surface.*

DORÆNA. *Thunberg, Fl. Jap.*

CAL. *Perianth* one-leaved, five-cleft, shorter than the corol: the *divisions* egg'd, concave, smooth.

COR. one-petal'd, subcylinder-wheel'd, five-cleft: the *divisions* of the *Border* egg'd, obtuse, erect.

STAM. *Filaments* five, inserted on the tube of the Corol very short, indeed almost none. *Anthers* oblong, rather four corner'd, included.

PIST. *Germ* above, conic, smooth. *Style* one, thread-form, the length of the corol. *Stigma* lop'd, end-nick'd.

PER. *Capsule* egg'd, acute, smooth, one-valved, one-cell'd, many-seeded, the size of pepper.

SEED. - - - -

203. HOTTÓNIA. * *Boerb. Stratiotes Vaill.*
A. G. 1719. *Water Milfoil.*
Water Violet.

CAL. *Perianth* one-leaved, five-parted: the *divisions* linear, erect-expanded.

COR. one-petal'd, salver-form. *Tube* the length of the calyx. *Border* five-cleft, flat: the *divisions* egg-oblong, end-nick'd.

STAM. *Filaments* five, awl'd, short, erect, opposite to the *divisions* of the corol, placed on the tube of the corol. *Anthers* oblong.

PIST. *Germ* globe-pointed. *Style* thread-form, short. *Stigma* globular.

PER. *Capsule* globular, pointed, one-cell'd, placed upon the calyx.

SEEDS. very numerous, globular. *Receptacle* globular, large.

204. HYDROPHYLLUM. (*Water-leaf.*) * *Tournef.* 16.

CAL. *Perianth* five-parted, scarcely shorter than the corol, expanding, permanent: the *divisions* awl'd.

COR. one-petal'd, bell'd, five-cleft: the *divisions* erect, obtuse, end-nick'd.

Nectary: A chink closed with two longitudinal converging fold-lets, adjoined to the petal within the middle of each division.

STAM. *Filaments* five, awl'd, longer than the corol. *Anthers* incumbent, oblong.

PIST. *Germ* egg'd, pointed. *Style* awl'd, the length of the stamens. *Stigma* two-cleft, acute, expanding.

PER. *Capsule* globular, one-cell'd, two-valved.

SEED. one, round, large.

244. ELLISIA.

CAL. *Perianth* one-leaved, five-parted: (the *divisions* acute) gaping.

COR. one-petal'd, funnel-form, less than the calyx: the *Border* five-cleft.

STAM. *Filaments* five, shorter than the tube. *Anthers* roundish.

PIST. *Germ* roundish. *Style* thread-form, short. *Stigma* two-cleft, oblong.

PER. *Capsule* bag-form, leathery, two-valved, two-cell'd; the calyx then very large, flat, star'd.

SEEDS two in each cell, globular, black, hollow-dotted: but with one seed upon another, scarcely separated by the transverse partition.

205. LYSIMACHIA. * (*Loose-strife.*) *Tournef.* 59.

CAL. *Perianth* five-parted, acute, erect, permanent.

COR. one-petal'd, wheel'd. *Tube* none. *Border* five-parted, flat: the *divisions* egg-oblong.

STAM. *Filaments* five, awl'd. *Anthers* pointed.

PIST. *Germ* roundish. *Style* thread-form, the length of the *filaments*, *Stigma* obtuse.

PER. *Capsule* globular, dagger'd, one-cell'd, ten-valv'd.

SEEDS very numerous, angular. *Receptacle* globular, very large, dotted.

OBS. *L. Linum stellatum* (*star*) differs in the corol being five-cleft, and the fruit five-valved.

206. ANAGALLIS. * *Tournef.* 59. *Pimpernel.*

CAL. *Perianth* five-parted, acute, permanent; the *divisions* keel'd.

COR. one-petal'd, wheel'd. *Tube* none. *Border* five-parted, flat: the *divisions* egg-orbed, with connected claws.

STAM. *Filaments* five, erect, shorter than the corol, shaggy beneath. *Anthers* simple.

PIST. *Germ* globular. *Style* slightly inclining. *Stigma* headed.

PER. *Capsule* globular, one-cell'd, circumcised.

SEEDS very numerous, angled. *Receptacle* globular, very large.

207. THE-

207. THEOPHRÁSTA. *Eresia*. *Plum.* 25.

CAL. *Perianth* half-fivecleft, small, permanent; obtuse in the divisions and sinuses.

COR. one-petal'd, bell'd, half-fivecleft, erect-expanding: the divisions and interstices obtuse.

STAM. *Filaments* five, awl'd, shorter than the corol. *Anthers* simple.

PIST. *Germ* egg'd. *Style* awl'd, shorter than the corol. *Stigma* acute.

PER. *Capsule* globular, very large, one-cell'd.

SEEDS very numerous, roundish, affixed on all sides to the free Receptacle.

1368. RÉTZIA. *Thunb. Act. lund.* S.

CAL. *Perianth* one-leaved, claw'd, five-parted. *Divisions* unequal, lanced, acute.

COR. beneath, one-petal'd, tubular, cylindric, villous within and without, five-cleft at the top. *Divisions* egg'd, obtuse, concave, erect, most shaggy at top.

STAM. *Filaments* five, awl'd, inserted in the mouth of the tube, shorter than the divisions. *Anthers* compress'd, arrow'd.

PIST. *Germ* above. *Style* thread-form, longer than the corol. *Stigma* two-cleft.

PER. *Capsule* oblong, two-cell'd, two-valved, acute, two-furrow'd, smooth.

SEEDS numerous, minute.

A Genus not natural: for it so much agrees with the Convolvulus in habit and character, that it differs only in its tubular corol, being very villous outwardly.

209. SPÍGELIA. * *Arapabaca Plum.* 31. *Worm-grass.*

CAL. *Perianth* one-leaved, five-parted, pointed, small, permanent.

COR. one-petal'd, funnel-form. *Tube* much longer than the calyx, narrow'd below. *Border* expanding, five-cleft: the divisions broad, pointed.

STAM. *Filaments* five, simple. *Anthers* simple.

PIST. *Germ* composed of two globes, above. *Style* one, awl'd, the length of the tube. *Stigma* simple.

PER. *Capsule* twin, two-cell'd, four-valved.

SEEDS numerous, very small.

210. OPHI-

210. OPHIORHIZA. † (*Serpent-root.*) *Fl. Zeyl.*
Mitreola edit. prior. *Mitra Houst.*

- CAL. *Perianth* one-leav'd, erect, five-tooth'd, equal, permanent,
 COR. one-petal'd, funnel-form: the border five-cleft, obtuse, expanding.
 STAM. *Filaments* five, thread-form, the length of the tube, on which it is inserted. *Anthers* oblong.
 PIST. *Germ* two-cleft, above. *Style* thread-form, the length of the stamens, thicker upwards. *Stigmas* two, obtuse.
 PER. *Capsule* two-lobed, broad, obtusish; (the lobes oblong, divaricated, two-cell'd with the partition contrary) gaping inwards.
 SEEDS numerous, angular.

1366. VIRÉCTA. * S.

- CAL. *Perianth* above, five-leaved, permanent. *Leaflets* awl-bristly, equal, erect. *Teeth* between the calyx-leaflets, very small, glandular, solitary between each pair of the leaflets.
 COR. one-petal'd, funnel-form. *Tube* three times as long as the calyx, slender, equal, erect. *Border* five-parted, equal, horizontally flat. *divisions* egg'd, intire.
 STAM. *Filaments* inserted into the middle of the tube, very short. *Anthers* linear, awl'd, converging.
 PIST. *Germ* beneath, globular, terminating within the calyx with an elevated permanent circle. *Style* thread-form, smooth. *Stigma* two-parted: the *divisions* bristly.
 PER. *Capsule* globular, angular, hispid, crown'd with the calyx, one-cell'd. *Receptacle* fleshy, filling the capsule, cover'd with one series of seeds.
 SEEDS. very numerous, small, angular, hollow-dotted.

1248. LISIANTHUS. * (*Smooth-flower.*) Brown
jam. t. 9.

- CAL. *Perianth* five-parted: the leaflets lanced, keel'd, membranous on the margin, very short, permanent.
- COR. one-petal'd, funnel-form. *Tube* long, rather bellied, contracted at the base within the calyx. *Border* five-parted: the *divisions* lanced, shorter than the tube, recurvate.
- STAM. *Filaments* five, thread-form, longer than the tube. *Anthers* oval, incumbent.
- PIST. *Germ* oblong, pointed. *Style* thread-form, the length of the stamens, permanent. *Stigma* headed, two-lobed.
- PER *Capsule* oblong, pointed, two-cell'd
- SEEDS numerous.

211. RÄNDIA. † *Houft. A. A. obs. Roy.*

- CAL. *Perianth* one-leaved, egg'd, permanent: the *mouth* five-cleft.
- COR. one-petal'd, salver-form. *Border* five-cleft: the *divisions* egg'd, acute.
- STAM. *Filaments* five, very short. *Anthers* oblong, erect, within the throat.
- PIST. *Germ* egg'd. *Style* simple, cylindric, the length of the Tube, two-cleft above. *Stigmas* obtuse, unequal.
- PER. *Berry* with a capsular bark, egg'd, lop'd at top, one-cell'd.
- SEEDS very numerous, orbicular, cartilaginous, compress'd, surrounded with pulp.

1367. SHEFFIELDIA. *Forst. gen. n. 9. S.*

- CAL. *Perianth* beneath, five-cleft, acute, permanent.
- COR. one-petal'd, bell'd, longer than the calyx. *Border* five-cleft: the *divisions* egg'd, reflected.
- STAM. *Filaments* ten, awl'd, inserted into the tube: *five alternate* ones fertile, opposite to the divisions; *five castrated* ones alternating with the divisions. *Anthers* hearted, pointed.
- PIST. *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigma* simple.
- PER. *Capsule* conic, one-cell'd, five-valved.
- SEEDS very numerous, globular, inserted into the columnar receptacle in the middle of the capsule.

212. AZÁLEA. * (*Upright Honey-suckle.*)

CAL. *Perianth* five-parted, acute, erect, small, coloured, permanent.
 COR. one-petal'd, bell'd, half-fivecleft: the sides of the divisions inflected.

STAM. *Filaments* five, thread-form, inserted into the receptacle, free. *Anthers* simple.

PIST. *Germ* roundish. *Style* thread-form, the length of the corol, permanent; *Stigma* obtuse.

PER. *Capsule* roundish, five-cell'd, five-valved.

SEEDS very numerous, roundish.

OBS. *The figure of the corol is funnel-form in some; in others bell-form; the stamens in some are very long, declining. It principally differs from Rhododendron in the number of its stamens.*

1369. EPÁCRIIS. * *Forst. gen. n. 10. S.*

CAL. *Perianth* beneath, five-parted, equal, permanent. *Leaflets* lanceolate.

COR. one-petal'd, funnel-form. *Tube* gradually enlarg'd into a five-parted *Border*: the *teeth* acute, villous above.

STAM. *Filaments* five, in the throat of the corol, very short. *Anthers* incumbent.

Nectary scalelets five, inverse-egg'd, end-nick'd, appressed and adjoined to the germ.

PIST. *Germ* roundish, five-striated. *Style* cylindric, short. *Stigma* headed.

PER. *Capsule* rather depress'd, five-valved, five-cell'd, gaping.

SEEDS numerous, very small.

WEIGELA. *Thunberg. Fl. Jap.*

CAL. *Perianth* five-leaved: the divisions awl'd, erect, equal.

COR. one-petal'd, funnel-form. *Tube* villous within, the length of the calyx. *Border* bell'd, half-fivecleft: the divisions egg'd, obtuse, erect-expanding.

STAM. *Filaments* five, inserted in the tube, thread-form, erect, almost the length of the corol. *Anthers* erect, linear, two-cleft at the base, obtuse at top.

PIST. *Germ* above, four-corner'd, lop'd, smooth. *Style* from the base of the germ, thread-form, rather longer than the corol. *Stigma* targetted, flat.

PER. *Fruit* yet unknown: in the flowering plant it seems to be a naked seed.

SEED

1371. TÉK-

1371. TÉKTONA. S.

CAL. *Perianth* beneath, one-leav'd, bell'd, half-fivecleft: the *divisions* hearted, acute, expanding.

COR. one-petal'd, funnel-form. *Tube* short, incurved at the base. *Border* bell'd, five-cleft: the *divisions* expanding, oblong, notch'd; with incurvate *tops*.

STAM. *Filaments* five, inserted into the tube, decurrent, erect, curved, thread-form, scarcely longer than the corol. *Anthers* globular, plough'd with a furrow.

Nectary surrounding the base of the germ, pitcher'd, short, fleshy.

PIST. *Germ* above, subglobular, striated, villous. *Style* thread-form, a little curved, villous, the length of the corol. *Stigma* obtuse, compress'd, two or three-tooth'd, perforated.

PER. *Drupe* rounded, depress'd, villous, juiceless, spongy; closed within the calyx, which becomes large, vein'd, inflated, membranous.

SEED *Nut* the figure of the *Drupe*, round, depress'd, with a point, bony in the centre, three-cell'd and four-cell'd.

213. PLUMBAGO. * (*Lead-wort.*) *Tournef.* 58.

CAL. *Perianth* one-leaved, egg-oblong, tubular, five-corner'd, rugged, (the mouth five-tooth'd,) permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, narrower above, longer than the calyx. *Border* five-cleft, erect-expanding: the *divisions* egg'd,

Nectary of five valvelets, pointed, very small, in the bottom of the corol, including the germ.

STAM. *Filaments* five, awl'd, free within the tube of the corol, sitting on the valvelets of the nectary. *Anthers* small, oblong, versatile.

PIST. *Germ* egg'd, very small. *Style* simple, the length of the tube. *Stigma* five-cleft, slender.

PER. none.

SEED one, oblong, included.

214. PHLOX. * *Lychnidea* Dill. *eltb.* 166. *False Lychnis.*

- CAL. *Perianth* one-leaved, cylindric, ten-angled, five-tooth'd, acute, permanent.
- COR. one-petal'd, salver-form. *Tube* cylindric, longer than the calyx, narrower below, incurved. *Border* flat, five-parted; the *divisions* equal, obtuse, shorter than the tube.
- STAM. *Filaments* five, within the tube of the corol, of which two are longer, one shorter. *Anthers* in the throat of the corol.
- PIST. *Germ* conic. *Style* thread-form, the length of the stamens. *Stigma* three-cleft, acute.
- PER. *Capsule* egg'd, three-corner'd, three-cell'd, three-valved.
- SEEDS solitary, egg'd.

1339. PORANA. † *Burman.*

- CAL. *Perianth* one-leaved: the *leaflets* lanced, obtuse, rather shorter than the corol, expanding, permanent; larger in the fruit.
- COR. one-petal'd, bell'd, half-fivecleft, erect, acute,
- STAM. *Filaments* five, capillary, expanding, rather shorter than the corol. *Anthers* incumbent, oval.
- PIST. *Germ* above, subglobular. *Style* half-twocleft, longer than the corol, bristly, permanent. *Stigmas* headed.
- PER. - - - two-valved.
- SEEDS. - - - - -

215. CONVOLVULUS. * (*Twist-together.*) *Tournef.* 57. *Bind-weed.*

CAL. *Perianth* five-parted, converging, egg'd, obtuse, very small, permanent.

COR. one-petal'd, bell'd, expanding, large, plaited, obscurely five-lobed.

STAM. *Filaments* five, awl'd, shorter-by half than the corol. *Anthers* egg'd, compress'd.

PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigmas* two, oblong, broadish.

PER. *Capsule* involved in the calyx, roundish, two-cell'd, one-two-or three-valved.

SEEDS two, roundish.

OBS. *The corol is commonly gashed with ten notches, but has sometimes a five-cleft border. Some species have a funnel-form corol.*

216. IPOMOEA. * *Quomoclit Tournef.* 39. *Volubilis Dill. elth.* 318.

CAL. *Perianth* five-cleft, oblong, very small, permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, very long. *Border* five-cleft, expanding: the *divisions* oblong, flat.

STAM. *Filaments* five, awl'd, nearly the length of the corol. *Anthers* roundish.

PIST. *Germ* roundish. *Style* thread-form, the length of the corol. *Stigma* globe-headed.

PER. *Capsule* roundish, three-cell'd.

SEEDS few, rather egg'd.

OBS. *It is too nearly allied to Convolvulus, differing in the elongated tube of the corol, and the headed stigma.*

217. POLEMONIUM. * *Tournef.* 61. *Greek Velerian.*

CAL. *Perianth* one-leaved, half-fivecleft, beneath, cup-form, acute, permanent.

COR. one-petal'd, wheel'd. *Tube* shorter than the calyx, closed with five valves placed at the top. *Border* five-parted, ample, flat: the *divisions* roundish, obtuse.

STAM. *Filaments* five, inserted into the valvelets of the tube, thread-form, shorter than the corol, inclining. *Anthers* roundish, incumbent.

PIST. *Germ* egg'd, acute, above. *Style* thread-form, the length of the corol. *Stigma* three-cleft, revolute.

PER. *Capsule* three-corner-egg'd, three-cell'd, three-valved, cover'd.

SEEDS very numerous, irregular, accutish.

218. CAMPANULA. * (*Bell.*) *Tournef.* 37. *Bell-flower.*

CAL. *Perianth* five-parted, acute, erect-expanding, above.

COR. one-petal'd, bell'd, impervious at the base, half-fivecleft, withering: the *divisions* broad, acute, spreading.

Nectary in the bottom of the corol, constructed of five *valvelets*, acute, converging, covering the receptacle.

STAM. *Filaments* five, capillary, very short, inserted into the tops of the valvelets of the nectary. *Anthers* longer than the filaments, compress'd.

PIST. *Germ* angular, beneath. *Style* thread-form, longer than the stamens. *Stigma* three-parted, oblong, thickish: the *divisions* revolute.

PER. *Capsule* roundish, angular, three-or-five-cell'd, emitting the seeds through as many lateral holes.

SEEDS numerous, small. *Receptacle* columnar, adjoin'd.

OBS. *The figure of the Pericarp is indeterminate.*

The Pericarp of the Trachelium of Ray is villous, rugged, three-cell'd.

The Pericarp of the Rapunculus of Ray is smooth, egg'd, three-cell'd.

The Pericarp of Medium Kn. is cover'd with five valves, five-cell'd.

The Pericarp of Speculum Veneris of Ray is columnar, prismatic, three-cell'd.

Pentagonia (five-corner'd) has the corol wheel'd.

Erinus is distinguished by its unequal corol; simple stigma, capsule gaping at top.

C. *Peregrina (forreign) differs in the sinuses of the Calyx not being reflected, the corol being between bell'd and wheel'd, the pistil shorter than the stamens.* R.

219. ROËLLA. *

CAL. *Perianth* one-leaved, top-shape, five-parted, permanent, above: the *divisions* lanced, acute, tooth'd, large.

COR. one-petal'd, funnel-form, deciduous. *Tube* rather shorter than the calyx. *Border* erect-expanding, five-parted, longer than the calyx.

Nectary of five converging scales, in the bottom of the corol.

STAM. *Filaments* five, awl'd, sitting on the nectary. *Anthers* awl'd, converging, the length of the filaments, the height of the calyx.

PIST. *Germ* oblong, beneath. *Style* thread-form, the length of the stamens. *Stigmas* two, oblong, depress'd, expanding.

PER *Capsule* cylindric, shorter than the calyx, crown'd by the calyx expanding and made larger, two-cell'd.

SEEDS very numerous, angular.

OBS. *Allied to Companula.*

220. PHYTEÚMA. * *Rapunculus Tournef.* 38.
Rampions.

CAL. *Perianth* one-leaved, five-parted, acute, erect-expanding, above.

COR. one-petal'd, wheel'd, expanding, five-parted: the *divisions* linear, acute, recurved.

STAM. *Filaments* five, shorter than the corol. *Anthers* oblong.

PIST. *Germ* beneath. *Style* thread-form, the length of the corol, recurved. *Stigma* two-or three-cleft, oblong, revolute.

PER. *Capsule* roundish, two-or three-cell'd.

SEEDS very numerous, small, roundish.

221. TRACHÉLIUM. * *Tournef.* 50. *Throat-wort*,CAL. *Perianth* five-parted, very small, above.COR. one-petal'd, funnel-form: *Tube* cylindric, very long, most slender. *Border* spreading, small, five-parted: the *divisions* egg'd, concave.STAM. *Filaments* five, capillary, the length of the corol. *Anthers* simple.PIST. *Germ* three-side-roundish, beneath. *Style* thread-form, twice as long as the corol. *Stigma* globular.PER. *Capsule* roundish, obtusely three-lobed, three-cell'd, three-valved.

SEEDS numerous, very small.

222. SAMOLUS. * *Tournef.* 60. *Water pimpernel*.CAL. *Perianth* five-parted, above, obtuse at base: the *divisions* erect, permanent.COR. one-petal'd, salver-form. *Tube* very short, the length of the calyx, spreading. *Border* flat, five-parted, obtuse: *Scalelets* very short, at the base of the sinus of the border, converging.STAM. *Filaments* five, short, fenced with the *Scalelets* of the corol. *Anthers* converging, cover'd.PIST. *Germ* beneath. *Style* thread-form, the length of the stamens. *Stigma* headed.PER. *Capsule* egg'd, girt by the calyx, one-cell'd, half-fivevalved.SEEDS very numerous, egg'd, small. *Receptacle* globular, large.

223. NAUCLEA. †

CAL. none. *Common Receptacle* globular, subvillous, every where cover'd with florets.COR. one-petal'd, funnel-form. *Tube* thread-form, longer. *Border* five-parted, short: the *divisions* egg'd, obtuse, recurved.STAM. *Filaments* five, very short, in the throat of the corol. *Anthers* egg'd, the length of the tube.PIST. *Germ* beneath, oblong. *Style* capillary, erect, longer than the corol. *Stigma* inverse-egg'd.

PER. none.

SEEDS solitary, oblong, rather three-corner'd, attenuated beneath, obtuse at top, two-cell'd.

224. RON-

224. RONDELÉTIA. † *Plum.* 12.

CAL. *Perianth* one-leaved, above, five-parted, acute, permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, longer than the calyx, bellied at top. *Border* five-parted, flat-reflected: the *divisions* roundish.

STAM. *Filaments* five, awl'd, nearly the length of the corol. *Anthers* simple.

PIST. *Germ* roundish, beneath. *Style* thread-form, the length of the corol. *Stigma* two-cleft.

PER. *Capsule* roundish, crown'd, two-cell'd.

SEEDS numerous or sometimes solitary.

225. MACROCÉNÉMUM. † (*Long-legs.*) *Brown.*

CAL. *Perianth* one-leaved, above, top-shape, five-tooth'd, permanent.

COR. one-petal'd, bell'd, five-cleft: the *divisions* egg'd, erect.

STAM. *Filaments* five, awl'd, villous, shorter than the corol. *Anthers* egg'd, comprefs'd, in the throat of the flower.

PIST. *Germ* beneath, conic. *Style* simple, the length of the stamens. *Stigma* thickish, two-lobed.

PER. *Capsule* oblong, top-shape, two-cell'd.

SEEDS very numerous, imbricated.

OBS. *It seems allied to the natural order of contorted plants.*

226. BELLÓNIA. *Plum.* 31.

CAL. *Perianth* one-leaved, above, half-fivecleft, permanent: the *divisions* lanced, acute.

COR. one-petal'd, wheel'd. *Tube* very short. *Border* flat, half-five-cleft, obtuse, large.

STAM. *Filaments* five, awl'd, erect, very short. *Anthers* erect, converging, short.

PIST. *Germ* beneath. *Style* awl'd, straight, longer than the stamens. *Stigma* acute.

PER. *Capsule* top-egg'd, involved in the calyx, and beaked with the converging divisions of it, one-cell'd.

SEEDS numerous, roundish, small.

227. PORT-

227. PORTLANDIA. † *Brown t. II. Jacq.*

CAL. *Perianth* five-leaved, above: the *leaflets* lance-oblong, permanent.

COR. one-petal'd. *Tube* long, funnelform-bellied. *Border* shorter than the tube, five-parted, acute.

STAM. *Filaments* five, awl'd, declining, nearly the length of the corol, arising from the bottom of the tube. *Anthers* linear, erect, the length of the corol.

PIST. *Germ* five-corner'd, roundish, beneath. *Style* simple, the length of the stamens. *Stigma* oblong, obtuse.

PER. *Capsule* inverse-egg'd, five-striated, five-angled, retuse, two-cell'd, two-valved, gaping from the top, the partition contrary.

SEEDS very numerous, roundish, compressed, imbricated.

OBS. *P. hexandra* (six-male) has six stamens. R.

1294 SCÆVOLA. † *Lobelia Plum. Jacq.*

CAL. *Perianth* above, very short, five-cleft, permanent.

COR. one-petal'd, unequal: *Tube* long, with a longitudinal fissure. *Border* five-cleft, ascending; the *divisions* one-rank'd, lanced, membranous on the margin.

STAM. *Filaments* five, short, capillary, inserted on the receptacle. *Anthers* distinct, erect, oblong, obtuse.

PIST. *Germ* beneath, egg'd. *Style* thread-form, thicker upwards, longer than the stamens, issuing from a fissure, incurvate towards the border. *Stigma* flattened, obtuse, with the mouth open.

PER. *Drupe* roundish, navel'd with a dot, one-cell'd.

SEED Nut egg'd, wrinkled, acute, two-cell'd.

OBS. It differs from the *Lobelias*, in the fruit, the absence of milk, and in other circumstances according to *Jacquine*.

228. CINCHONA. *Quinquina Condani Act. Gall.*
1738. (*The Bark.*)

- CAL. *Perianth* one-leaved, above, bell'd, five-tooth'd, permanent.
COR. one-petal'd, funnel-form, five-parted: *Tube* long: the *divisions* oblong, shorter than the *Tube*, woolly at top.
STAM. *Filaments* five, very small. *Anthers* oblong, within the throat of the corol.
PIST. *Germ* roundish, beneath. *Style* the length of the corol. *Stigma* thickish, oblong, simple.
PER. *Capsule* oblong, crown'd by the calyx, two-partible, gaping into two inwardly gaping parts, the partition parallel.
SEEDS very numerous, oblong, compressed, margin'd.
OBS. *The flower sometimes loses a fifth part of its number in all its parts.*

229. PSYCHOTRIA. † (*Cold-nursed.*) *Psychotrophum Brown. jam. t. 17.*
f. 2. Jacq. amer. 65.

- CAL. *Perianth* very small, five-tooth'd, above, permanent.
COR. one-petal'd, salver-form: the *tube* long: *Border* short, five-cleft: the *divisions* rather egg'd, acute.
STAM. *Filaments* five, capillary. *Anthers* linear, not surpassing the tube.
PIST. *Germ* beneath. *Style* thread-form. *Stigma* two-cleft: the *divisions* thickish, obtuse.
PER. *Berry* roundish, one cell'd, crown'd by the calyx.
SEEDS two, hemispheric, convex, five-furrow'd on one side, flat on the other.

230. COFFEA. * *Coffe Juss. A. G. 1713. Jacq. amer. 67. Coffee.*

CAL. *Perianth* four-tooth'd, very small, above.

COR. one-petal'd, salver-form. *Tube* cylindric, slender, many times longer than the calyx. *Border* flat, five-parted, longer than the tube: *divisions* lanced: their sides revolute.

STAM. *Filaments* five, awl'd, placed on the tube of the corol. *Anthers* linear, incumbent, the length of the filaments.

PIST. *Germ* roundish, beneath. *Style* simple, the length of the corol. *Stigmas* two, reflected, awl'd, thickish.

PER. *Berry* roundish, navel'd with a dot.

SEEDS two, ellipsis-hemispheric, gibbous on one side, flat on the other, involved in an aril.

OBS. C. *Occidentalis* (*occidental*) of *Jaquine*; differs in a four-cleft flower, withone Seed four-lobed beneath.

231. CHIOCÓCCA. † *Brown. Jacq. amer. 68.*

CAL. *Perianth* five-tooth'd, above, permanent.

COR. one-petal'd, funnel-form. *Tube* long, expanding. *Border* five-parted: the *divisions* equal, acute, reflected.

STAM. *Filaments* five, thread-form, the length of the corol. *Anthers* oblong, erect.

PIST. *Germ* beneath, roundish, compress'd. *Style* thread-form, the length of the stamens. *Stigma* simple, obtuse.

PER. *Berry* roundish, compress'd, crown'd with the calyx, one-cell'd.

SEEDS two, roundish, compress'd, distant.

232. HAMÉLLIA. † *Jacq. amer. 71.*

CAL. *Perianth* five-parted, acute, very small, above, erect, permanent.

COR. one-petal'd: *Tube* five-angled, very long. *Border* five-parted, equal, small, acute.

STAM. *Filaments* five, awl'd, inserted at the middle of the corol. *Anthers* oblong, linear, the length of the corol.

PIST. *Germ* egg'd with a conic top, beneath. *Style* thread-form, the length of the corol. *Stigma* linear, obtuse.

PER. *Berry* oval, furrow'd, five-cell'd, crown'd.

SEEDS. very numerous, roundish, compress'd, very small.

233. LONICÉRA. * *Caprifolium Tournef.* 378.
Perriclymenum Tournef. 378.
Chamæcerasus Tournef. 379.
Xylosteum Tournef. 379. *Symphoricarpus Dill. elth.* 273.
 (Honey-suckle.)

- CAL. *Perianth* five-parted, above, small.
 COR. one-petal'd, tubular. *Tube* oblong, gibbous. *Border* five-parted: the *divisions* revolute, of which one is separated more deeply.
 STAM. *Filaments* five, awl'd, nearly the length of the corol. *Anthers* oblong.
 PIST. *Germ* roundish, beneath. *Style* thread-form, the length of the corol. *Stigma* obtuse-headed.
 PER. *Berry* navel'd, two-cell'd.
 SEEDS roundish, compress'd.
 OBS. *Caprifolium*, the *inferior division* of the corol separated twice as deep. *Berries* distinct.
Periclymenum, the *divisions* of the corol cut almost equally deep. *Berries* distinct.
Chamæcerasus, the *inferior division* of the corol cut twice as deep. *Two berries* standing on the same base.
Xylosteum, the *divisions* of the corol cut almost equally deep. *Two berries* standing on the same base.
Symphoricarpus, the corol nearly bell'd, fruit two-cell'd, half-four-cell'd, with seeds solitary.
L. alpigena (alpine) and *cærulea* (blue) are singular in one germ for two florets, like *Mitchella*.

234. TRIOSTEUM † (*Three-bone.*) Triosteospermum (*Three-bone-feed.*)
Dill. elth. 223.

CAL. *Perianth* five-parted, above, expanding, the length of the corol: *leaflets* lanced, permanent.

COR. one-petal'd, tubular; the *Border* shorter than the tube, five-parted, erect: the *Lobes* rounded, the inferior ones less.

STAM. *Filaments* five, thread-form, the length of the corol. *Anthers* oblong.

PIST. *Germ*s roundish, beneath. *Style* cylindric, the length of the stamens. *Stigma* thickish.

PER. *Berry* inverse-egg'd, nearly three-corner'd, three-cell'd.

SEEDS solitary, bony, obtusely three-corner'd, obtuse, furrow'd.

235. MORINDA. † *Vaill. A. G.* 1722. *Rojoc. Plum.* 26. *Phyllyreastrum Vaill. A. G.* 1722.

CAL. *Common Receptacle* roundish, collects the sessile flowers into a globe.

Perianth five-tooth'd, scarcely observable, above.

COR. one-petal'd, funnel-form. *Tube* cylindric. *Border* five-cleft, acute, most expanding: the *divisions* lanced, flat.

STAM. *Filaments* five, very short, inserted above into the tube. *Anthers* linear, erect, nearly the length of the tube.

PIST. *Germ* beneath. *Style* simple. *Stigma* two-cleft, thickish.

PER. *Berry* rather egg'd, angular, compress'd on all sides by the adjacent ones, lop'd, one-cell'd.

SEEDS two, convex on one side, flat on the other.

236. CONOCÁRPUS. † (*Cone-fruit.*) Jacq.
amer. 78. *Rudbeckia*
Houss. A. A.

CAL. *Perianth* one-leaved, above, very small, five-parted, acute, erect: the *divisions* awl'd.

COR. *Petals* five, converging, or none.

STAM. *Filaments* five, or ten, awl'd, erect. *Anthers* globular.

PIST. *Germ* large, compress'd, obtuse, beneath. *Style* one, short. *Stigma* obtuse.

PER. none distinct from the seed.

SEED one, inverse-egg'd: the *margin* membranous, thick, prominent on both sides.

OBS. *Many Germs* are collected, imbricate-wise into a globular cone, like reflected scales.

C. *erecta* (*erect*) is five-male, petalless, Jacq.

C. *racemosa* (*racemed*) is ten-male, five-petal'd, Jacq.

237. KUHNIA. *

CAL. *Common Perianth* oblong, imbricated: scales very numerous, lanced, gibbous, permanent.

COR. *common* equal: florets from ten to fifteen.

Corollet one-petal'd, funnel-form, twice as long as the calyx: *Border* five-cleft, erect.

STAM. *Filaments* five, capillary, very short. *Anthers* subcylindric, shorter than the tube of the corollet, gaping with a lip at top.

PIST. *Germ* beneath. *Style* the length of the stamens. *Stigmas* two, club'd.

PER. *Calyx* unchang'd.

SEEDS solitary, oblong, crown'd with a feathery *Pappus*, longer than the calyx.

RAC. naked.

OBS. A compound flower allied to *Eupatorium*, but the *Anthers* very different.

238. ERI-

238. ERITHALIS. † *Brown, t. 17. f. 3.*

CAL. *Perianth* one-leaved, above, pitcher'd, five-tooth'd, permanent.

COR. one-petal'd, five-parted: the tube very short: the *divisions* lanceed, long, recurved.

STAM. *Filaments* five, awl'd, expanding, scarcely the length of the corol. *Anthers* oblong.

PIST. *Germ* beneath, roundish. *Style* thread-form, compress'd above, the length of the stamens. *Stigma* acute.

PER. *Berry* globular, crown'd, ten-cell'd.

SEEDS small.

239. MENAIS. *Læff. 306. D. Aymen.*

CAL. *Perianth* three-leaved: the *leaflets* concave, loose, pointed, small, permanent.

COR. one-petal'd, salver-form. *Tube* cylindric, longer than the calyx. *Border* flat, five-parted: the *divisions* rounded.

STAM. *Filaments* five, very short, inserted into the tube. *Anthers* awl'd, at the throat of the corol.

PIST. *Germ* roundish. *Style* thread-form, the length of the tube. *Stigmas* two, oblong.

PER. *Berry* globular, four-cell'd.

SEEDS solitary, rather egg'd, then acute

241. MUSSÆNDA. † *Burm.*

CAL. *Perianth* above, five-parted, unequal: the *leaflets* line-pointed, permanent.

COR. one-petal'd, funnel-form: *Tube* long, thread-form, shaggy, the *Border* five-cleft, equal: the *divisions* egg'd.

STAM. *Filaments* five, the length of the corol, internally adjoined to the tube. *Anthers* line-bristly, long, within the tube.

PIST. *Germ* beneath, egg'd. *Style* thread-form. *Stigmas* two, simple, thickish.

PER. *Berry* oblong, crown'd,

SEEDS numerous, digested in four phalanxes.

1231. MATTHÍOLA. *Plum.* 6. *Pont.* 4. 39.

CAL. *Perianth* cylindric, most intire, erect, short, permanent.

COR. *Petal* one, very long, gradually passing from a slender tube to an intire *Border*, the *mouth* scollop'd.

STAM *Filaments* five, awl'd, shorter than the corol. *Anthers* simple.

PIST. *Germ* globular, beneath. *Style* thread-form, the length of the corol. *Stigma* thickish, obtuse.

PER. *Drube* globular, crown'd with the calyx, one-cell'd.

SEEDS *Nut* globular. *Nucleus* globular.

242. MIRABÍLIS. * (*Wonderful.*) *Jalapa Tournef.*
50. *Marvel of Peru.*

CAL. *Perianth* five-leaved, erect-bellied, beneath: the *leaflets* egg-lanced, permanent.

COR. one-petal'd, funnel-form. *Tube* slender, long, thicker above, placed on the nectary. *Border* erect-expanding, intire, obtusely five-cleft, plaited.

Nectary globular, placed under the petal, permanent.

STAM. *Filaments* five, thread-form, arising from the receptacle, adjoined to the petal (not the nectary), the length of the corol, inclined, unequal. *Anthers* roundish, ascending.

PIST. *Germ* roundish, within the nectary. *Style* thread-form, the length and situation of the stamens. *Stigma* globular, dotted, ascending.

PER. none.

SEED *Nut* five-corner-egg'd, from the indurated nectary, deciduous.

243. CÓRIS. (*Tick*) *Tournef.* 423. *Heath-pine.*

CAL. *Perianth* one-leaved, bellied, converging, five-tooth'd; crown'd outwardly with *Thorns*, the five superior ones simple: the inferior tooth'd.

COR. one-petal'd, irregular. *Tube* the length of the calyx, cylindric. *Border* flat, five-parted: the *divisions* oblong, end-nick'd, obtuse; the two inferior ones shorter, more distant.

STAM. *Filaments* five, bristly, the length of the corol, declining. *Anthers* simple.

PIST. *Germ* roundish, above. *Style* thread-form, the length of the stamens, declining. *Stigma* thickish.

PER. *Capsule* globular, placed in the bottom of the calyx, one-cell'd, five-valved.

SEEDS very numerous, rather egg'd, small.

1229. BROSSÆA. † *Plum.* 17.

CAL. *Perianth* one-leaved, five-parted: the *divisions* ending in erect points, the length of the corol.

COR. one-petal'd, conic, lop'd at top, intire.

STAM. five.

PIST. *Germ* five-grained. *Style* awl'd, shorter than the corol. *Stigma* simple.

PER. *Capsule* roundish, divided with five furrows, five-cell'd, cover'd with a large, converging, fleshy, succulent calyx, which gapes on the sides.

SEEDS very numerous, most minute.

245. VERBÁSCUM. * *Tournef.* 61. *Blattaria*
Tournef. *Mullein.*

CAL. *Perianth* one-leaved, five-parted, small, permanent: the *divisions* erect, acute.

COR. one-petal'd, wheel'd, subunequal. *Tube* cylindric, very short. *Border* expanding, five-parted: the *divisions* egg'd, obtuse.

STAM. *Filaments* five, awl'd, shorter than the corol. *Anthers* roundish, compress'd, erect.

PIST. *Germ* roundish. *Style* thread-form, the length of the stamens, inclining. *Stigma* thickish, obtuse.

PER. *Capsule* roundish, two-cell'd, two-valved, gaping above. *Receptacles* half-egg'd, affixed to the partition.

SEEDS numerous, angular.

OBS. In most the stamens are inclined, and unequal and clothed below with colour'd hairs.

246. DA-

246. DATURA. Stramonium * *Tournef.* 43. 44.
Pont. 3. 1. *Thorn-*
apple.

CAL. *Perianth* one-leaved, oblong, tubular, bellied, five-angled, five-tooth'd, horizontally deciduous near the base, the remaining orbicular part permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, rather longer than the calyx. *Border* erect-expanded, five-angled, five-plaited, nearly intire, five-tooth-pointed.

STAM. *Filaments* five, awl'd, the length of the calyx. *Anthers* oblong, compress'd, obtuse.

PIST. *Germ* egg'd. *Style* thread-form, straight. *Stigma* thickish, obtuse, two-folded.

PER. *Capsule* rather egg'd, two-cell'd, four-valved, placed on the base of the calyx. *Receptacles* convex, large, dotted, affixed to the partition.

SEEDS numerous, kidney-form.

Obs. *The smoothness and prickly asperity of the Capsule vary in this genus.*

247. HYOSCYAMUS. * (*Swine's-bean.*) *Tournef.*
 42. *Henbane.*

CAL. *Perianth* one-leaved, tubular, bellied below; (the mouth five-cleft, acute,) permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, short. *Border* erect-expanding, half-five-cleft: the divisions obtuse, with one broader than the rest.

STAM. *Filaments* five, awl'd, inclining. *Anthers* roundish.

PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigma* headed.

PER. *Capsule* egg'd obtuse, with a line engraved on both sides, two-cell'd, (the two capsules closely approximated) circumsised with a cover gaping horizontally. *Receptacles* half-egg'd, affixed to the partition.

SEEDS numerous, unequal.

Obs. *H. Scopolia* differs in the calyx being five-cleft, bell'd, awnless, and the corol bell'd, slightly five-cleft.

248. NICOTIANA. * *Tournef.* 41. *Tobacco.*

CAL. *Perianth* one-leaved, egg'd, half-fivecleft, permanent.

COR. one-petal'd, funnel-form. *Tube* longer than the calyx. *Border* spreading, half-fivecleft, five-plaited.

STAM. *Filaments* five, awl'd, nearly the length of the corol, ascending. *Anthers* oblong.

PIST. *Germ* egg'd. *Style* thread-form, the length of the corol. *Stigma* headed, end-nick'd.

PER. *Capsule* rather egg'd, with a line engraved on both sides, two-cell'd, two-valved, gaping at top. *Receptacles* half-egg'd, dotted, affixed to the partition.

SEEDS numerous, kidney-form, wrinkled.

OBS. *The pointed and obtuse Figure is various in this genus.*

249. ATROPA. * *Belladonna Tournef.* 13. *Man-
dragora. Tournef.* 12. *Deadly-
Nightshade. Dwale.*

CAL. *Perianth* one-leaved, five-parted, gibbous: (the *divisions* acute,) permanent.

COR. one-petal', bell'd. *Tube* very short. *Border* bellied, egg'd, longer than the calyx: the mouth small, five-cleft, spreading: the *divisions* subequal.

STAM. *Filaments* five, awl'd, growing from the base of the corol, the length of the corol, converging at the base, diverging above outwardly, bow'd. *Anthers* thickish, ascending.

PIST. *Germ* half-egg'd. *Style* thread-form, the length of the stamens inclining. *Stigma* headed, ascending, transverse-oblong.

PER. *Berry* globular, sitting on a large calyx, two-cell'd: the *Receptacle* fleshy, convex on both sides, kidney-form.

SEEDS very numerous, kidney-form.

250. PHŶSALIS. * (*Bladder*) *Alkekengi Tournef.*
64. *Winter-cherry.*

- CAL. *Perianth* one-leaved, bellied, half-fivecleft, small, five-corner'd: (the *divisions* pointed) permanent.
COR. one-petal'd, wheel'd. *Tube* very short. *Border* half-fivecleft, large, plaited: the *divisions* broad, acute.
STAM. *Filaments* five, awl'd, very small, converging. *Anthers* erect, converging.
PIST. *Germ* roundish. *Style* thread-form, rather longer than the *stamens*. *Stigma* obtuse.
PER. *Berry* subglobular, two-cell'd, small, within the large, inflated, closed, five-corner'd, colour'd calyx.
Receptacle kidney-form, doubled.
SEEDS very numerous, kidney-form, compress'd.

251. SOLANUM. * *Tournef.* 62. *Melongena*
Tournef. 65. *Lycopersicon*
Tournef. 63. *Nightshade.*

- CAL. *Perianth* one-leaved, half-fivecleft, erect, acute, permanent.
COR. one-petal'd, wheel'd. *Tube* very short. *Border* large, half-fivecleft, flat-reflected, plaited.
STAM. *Filaments* five, awl'd, very small. *Anthers* oblong, converging, subcoalesced, gaping with two pores at top.
PIST. *Germ* roundish. *Style* thread-form, longer than the *stamens*. *Stigma* obtuse.
PER. *Berry* roundish, smooth, mark'd with a dotted top, two-cell'd: the *Receptacle* convex on both sides, fleshy.
SEEDS very numerous, roundish, nestling.

252. CÁPŚICUM. * *Tournef.* 66. *Guinea-Pepper.*

CAL. *Perianth* one-leav'd, five-cleft, erect, permanent.

COR. one-petal'd, wheel'd. *Tube* very short. *Border* half-fivecleft, expanding, plaited: the *divisions* broad, acute.

STAM. *Filaments* five, awl'd, very small. *Anthers* oblong, converging.

PIST. *Germ* egg'd. *Style* thread-form, longer than the *stamens*. *Stigma* obtuse.

PER. *Berry* without Pulp, approaching to an egg'd figure, two-cell'd, hollow, colour'd. *Receptacles* adjoin'd to the partition, juiceless.

SEEDS very numerous, kidney-form, compress'd.

OBS. *The figure of the Pericarp is indeterminate; it differs from its kindred in the berried juiceless Pericarp.*

253. STRÝCHNOS.

CAL. *Perianth* five-parted, very small, deciduous.

COR. one-petal'd. *Tube* cylindric. *Border* expanding, five-cleft, acute.

STAM. *Filaments* five, the length of the corol. *Anthers* simple.

PIST. *Germ* roundish. *Style* simple, longer than the *stamens*. *Stigma* thickish.

PER. *Berry* fragile, globular, smooth, very large, one-cell'd, full of pulp.

SEEDS orbicular, depress'd, villous, ray'd with hairs towards the periphery.

240. GÉNIPA. * *Tournef.* 436. 437.

CAL. *Perianth* is the intire margin of the germ, above.

COR. one-petal'd, wheel'd. *Tube* very short, funnel-form. *Border* large, five-parted, expanding: the *divisions* egg'd, acute.

STAM. *Filaments* five, awl'd, reflected, shorter than the corol. *Anthers* roundish, converging.

PIST. *Germ* egg'd, beneath. *Style* simple, short. *Stigma* club'd, large, the length of the *stamens*.

PER. *Berry* fleshy, egg'd, attenuated at both ends, lop'd, two-cell'd.

SEEDS numerous, nestling, hearted.

1370. IGNATIA. S.

- CAL. *Perianth* beneath, one-leaved, short, bell'd, five-tooth'd. *Teeth* erect, egg'd, obtuse.
- COR. one-petal'd, funnel-form. *Tube* thread-form, six-inch, smooth, erect. *Border* flat, five-parted: the *divisions* oblong, obtuse, most intire.
- STAM. *Filaments* five, inserted into the receptacle, the length of the tube, thread-form, very smooth. *Anthers* five, converging and joining into an oblong, five-corner'd, acute, hispid column.
- PIST. *Germ* very small, egg'd, most smooth. *Style* thread-form, the length of the stamens. *Stigma* slender, two-parted: the *divisions* awl'd.
- PER. *Drupe* pear-form, very smooth, large, one-cell'd. *Bark* woody, thick, the *Cell* fill'd with kernels appress'd to each other, nor is there any interstice; whence its different figures.
- SEEDS *Nucleuses* of different figure, very smooth, the size of a filbert, cover'd with a skin; the substance solid, horny, very hard, without the usual folding of the cotyledons. The *lateral ones* irregularly four-corner'd, the interior sides flat, the exterior one gibbous, the inferior one oblique: the *central one* very different, six-corner'd: the tops flat.

291. CESTRUM. * *False-jamine.*

- CAL. *Perianth* one-leaved, tubular, columnar, obtuse, very short; the *mouth* fivecleft, erect, obscure.
- COR. one-petal'd, funnel-form. *Tube* cylindric, very long, slender. *Throat* roundish. *Border* flat, plaited, five-cleft; the *divisions* egg'd, equal.
- STAM. *Filaments* five, thread-form, longitudinally adjoined to the tube, emitting within a toothlet in the middle. *Anthers* roundish, four-corner'd, within the throat.
- PIST. *Germ* cylinder-egg'd, the length of the calyx. *Style* thread-form, the length of the stamens. *Stigma* thickish, obtuse, scarcely end-nick'd.
- PER. *Berry* egg'd, one-cell'd, oblong.
- SEEDS very numerous, roundish.
- OBS. It is different from *Lycium* in the one-cell'd berry.
- C. *vespertinum* (evening) differs in some circumstances. R.

262. LŶCIUM. * Jasminoides, (*Jasmine-like*)
Niss. A. G. 1711. *Box-thorn*.

CAL. *Perianth* rather five-cleft, obtuse, erect, very small, permanent
COR. one-petal'd, tunnel-form. *Tube* cylindric, expanding, incurvate. *Border* five-parted, obtuse, spreading, small.

STAM. *Filaments* five, awl'd, from the middle of the tube, shorter than the corol, closing the tube with a beard. *Anthers* erect.

PIST. *Germ* roundish. *Style* simple, longer than the stamens. *Stigma* two-cleft, thickish.

PER. *Berry* roundish, two-cell'd.

SEEDS numerous, kidney-form. *Receptacles* convex, affixed to the partition.

254. JACQUINIA. † *Jacq. amer.* 53.

CAL. *Perianth* five-leaved: the *leaflets* roundish, concave, permanent.

COR. one-petal'd; *Tube* bell'd, bellied, longer than the calyx. *Border* ten-cleft: the *divisions* roundish; of which the five interior ones are shorter.

STAM. *Filaments* five, awl'd, arising from the receptacle. *Anthers* halberted.

PIST. *Germ* egg'd. *Style* the length of the stamens. *Stigma* headed.

PER. *Berry* roundish, pointed, one-cell'd.

SEED one, roundish, cartilaginous.

255. CHIRÓNIA. †

CAL. *Perianth* one-leaved, five-parted, erect, acute, permanent; the *leaflets* oblong.

COR. one-petal'd, equal. *Tube* narrower. *Border* five-parted, expanding: the *divisions* egg'd, equal.

STAM. *Filaments* five, broad, short, growing out from the top of the tube. *Anthers* oblong, erect, large, converging; the deflower'd ones spirally contorted.

PIST. *Germ* egg'd. *Style* thread-form, rather longer than the stamens, declining. *Stigma* headed, ascending.

PER. egg'd, two-cell'd.

SEEDS numerous, small.

OBS. *The Pericarp is a Capsule in some, but in others a Berry.*

256. CÔR-

256. CORDIA. *Plum.* 14. *Sebestena Dill. elth.* 225.

CAL. *Perianth* one-leaved, tubular, tooth'd at top, permanent.

COR. one-petal'd, funnel form. *Tube* spreading, the length of the calyx. *Border* erect-expanding, cut into five (four or six) obtuse *divisions*.

STAM. *Filaments* five, awl'd. *Anthers* oblong, the length of the tube.

PIST. *Germ* roundish, pointed. *Style* simple, the length of the *filaments*, two-cleft above: the *divisions* two-cleft. *Stigma* obtuse.

PER. *Drupe* globular, pointed, increasing with the calyx.

SEED *Nut* furrow'd, four-cell'd.

OBS. *C. Spinescens (thorny) is bell'd both in the calyx and corol.* R.

208. PATAGÓNULA. *Patagonica. Dill. elth.* 226. *f.* 293.

CAL. *Perianth* very small, five-tooth'd, permanent.

COR. one-petal'd, wheel'd. *Tube* scarcely any. *Border* flat, five-parted: the *divisions* egg'd, acute.

STAM. *Filaments* five, the length of the corol. *Anthers* simple.

PIST. *Germ* egg'd, acute. *Style* thread-form, half-twocleft, with branchlets half-twocleft again, the length of the *filaments*, permanent. *Stigma* simple.

PER. *Capsule* egg'd, pointed, sitting on a very large *calyx*, with *divisions* oblong, long, end-nick'd.

SEED

OBS. The essence consists in the structure of the fruit-bearing calyx, by which it is distinguish'd from all, altho' a knowledge of its seeds is hitherto wanting. From the two-fork'd style it seems allied to the *Cordias*.

257. EHRÉTIA. *Brown. t. 16. f. 1. Jacq. amer.*
45.

CAL. *Perianth* one-leaved, bell'd, half-fivecleft, obtuse, very small, permanent.

COR. one-petal'd. *Tube* longer than the calyx. *Border* five-cleft the *divisions* rather egg'd, flat.

STAM. *Filaments* five, awl'd, spreading, the length of the corol. *Anthers* roundish, incumbent.

PIST. *Germ* roundish. *Style* thread-form, thicker above, the length of the stamens. *Stigma* obtuse, end-nick'd.

PER. *Berry* roundish, one-cell'd.

SEEDS four, convex on one side, angular on the other.

OBS. *The seeds of Bourreria are two-cell'd.*

The Berry is now call'd two-cell'd, and the seeds solitary, two-cell'd. Syst. Veg. p. 192. R.

258. VARRÓNIA. *Brown. t. 13. f. 2. Jacq. amer.* 40.

CAL. *Perianth* one-leaved, tubular, five-tooth'd: (the toothlets recurved) permanent.

COR. one-petal'd, tubular, cylindric. *Border* five-parted, expanding,

STAM. *Filaments* five, awl'd, the length of the corol. *Anthers* incumbent, oblong.

PIST. *Germ* egg'd. *Style* thread-form, the length of the corol. *Stigmas* four, bristly.

PER. *Drupe* egg'd, one-cell'd, included in the calyx, free.

SEED *Nut* four-cell'd, roundish.

259. LAUGÉRIA. † *Jacq. amer.* 64.

CAL. *Perianth* one-leaved, tubular, above; (the mouth unequal) small, deciduous.

COR. one-petal'd, falver-form. *Tube* very long. *Border* five-cleft: the *divisions* inverse-egg'd.

STAM. *Filaments* five, very short. *Anthers* linear, long, under the throat.

PIST. *Germ* rather egg'd, beneath. *Style* thread-form, a little longer than the tube. *Stigma* headed.

PER. *Drupe* roundish, navel'd with a dot.

SEED *Nut* roundish, five-furrow'd, five-cell'd.

260. BRUN-

260. BRUNFELSIA. † *Plum.* 22.

CAL. *Perianth* one-leaved, bell'd, five-tooth'd, obtuse, very small, permanent.

COR. one-petal'd, funnel-form. *Tube* very long. *Border* flat, five-cleft, obtuse.

STAM. *Filaments* five, the length of the tube, into which it is inserted. *Anthers* oblong.

PIST. *Germ* roundish, small. *Style* thread-form, the length of the tube. *Stigma* thickish.

PER *Berry* globular, one-cell'd.

SEEDS numerous, affix'd to the coat of the Berry, roundish.

OBS. *It is proved to be of the class two-powers, seed-cover'd, from two plants which have been examined.* Lin. R.

263. CHRYSOPHYLLUM. † (*Golden-leaf.*) *Cainito Plum.* 9. *Jacq. amer.* 51.

CAL. *Perianth* four-parted, small: the *leaflets* roundish, obtuse, permanent.

COR. one-petal'd, bell'd: *Border* five-cleft: the *divisions* roundish, most expanding, shorter than the tube.

STAM. *Filaments* five, awl'd, placed on the tube, converging. *Anthers* roundish, twin, incumbent.

PIST. *Germ* roundish. *Style* very short. *Stigma* obtuse, nearly five cleft.

PER. *Berry* globular, ten-cell'd, large.

SEEDS solitary, bony, compress'd, mark'd with a small scar, glossy.

OBS. *The corol is defined to be ten-cleft; the alternate divisions spreading.* *Syst. Veg.* P. 193. R.

264. SIDERÓXYLON. † *Iron-wood. Dill. elth.*
 265. *Jacq. amer. 55.*

CAL. *Perianth* five-cleft, small, erect, permanent.

COR. one-petal'd, wheel'd: the *divisions* five, roundish, concave, erect. A *Toothlet* piked, saw'd, at the base of each interstice of the Petal, tending inwards.

STAM. *Filaments* five, awl'd, the length of the corol, alternating with the toothlets. *Anthers* oblong, incumbent.

PIST. *Germ* roundish. *Style* awl'd, the length of the stamens. *Stigma* simple, obtuse.

PER. *Drupe* roundish, one-cell'd, navel'd with a starry top.

SEED *Nut* egg'd, one-cell'd.

OBS. These *Toothlets* of the corol are sometimes taken for a *Nectary*, sometimes for *divisions* of the corol. But when they are supposed *divisions* of the corol, the corol itself will be ten-cleft, the Berry also is five-seeded. See *Syst. Veg. P. 193. R.*

S. *decandrum* (ten-male) has ten stamens, ib. R.

265. RHAMNUS. * *Tournef.* 366. *Frangula*,
Tournef. 383. *Cervi spina*
Dill. gen. 8. *Paliurus Tournef.*
387. Alaternus Tournef.
366. Ziziphus Tournef. 403.
Buckthorn.

CAL. none : unless you take the corol for the calyx.

COR. *Petal* imperforated, externally rude, internally colour'd, funnel-form, *Tube* top-cylindric. *Border* expanding, divided, acute.

Scalelets five, very large, one at the base of each interstice, converging inwards.

STAM. *Filaments* as many as the divisions of the corol, awl'd, inserted into the petal under the scalelet. *Anthers* small.

PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigma* obtuse, divided into fewer divisions than the corol.

PER. *Berry* roundish, naked, divided into fewer internal parts than the corol.

SEEDS solitary, roundish, gibbous on one side, compress'd on the other.

OBS. a. FRANGULA. *Stigma* end-nick'd. *Berry* four-seeded. *Corol* five-cleft.

b. CATHARTICUS. *Stigma* four-cleft. *Berry* four-seeded. *Corol* four-cleft. *Two-house, Four-male.*

c. PALIURUS. *Styles* three. *Nucleus* three-cell'd. *Corol* five-cleft: a membranous margin surrounding the berry.

d. ALATERNUS. *Stigma* three-cleft. *Berry* three-seeded. *Corol* five-cleft. *Polygamy* Two-house by Males and hermaphrodites. *The scalelets of the corol are wanting.*

e. ZIZIPHUS. *Styles* two. *Nucleus* of the *Berry* two-cell'd. *Corol* five-cleft.

266. PHYLICA. * *Falſe alaternus.*

CAL. *Common Receptacle* of the fructifications collecting the flowers into a diſk.

Proper Perianth one-leaved, five-cleft, top-ſhape; (the mouth vil-
lous) permanent.

COR. none. *Scalelets* five, pointed, one at the baſe of each inter-
ſtice of the calyx, converging inwards.

STAM. *Filaments* five, very ſmall, inſerted under a ſcalelet. *Anthers*
ſimple.

PIST. *Germ* in the bottom of the corol. *Style* ſimple. *Stigma* obtuſe.

PER. *Capsule* roundiſh, three-grain'd, three-cell'd, three-valved.

SEEDS ſolitary, roundiſh, gibbous on one ſide, angular on the other.

OBS. *There is a ſpecies with two-houſe flowers; another furniſh'd with*
three ſtigmas. R.

267. CEANÓTHUS. * *New Jerſey Tea.*

CAL. *Perianth* one-leaved, top-ſhape: the *Border* five-parted, acute,
cloſe-converging; permanent.

COR. *Petals* five, equal, roundiſh, vault-bag'd, compreſs'd, moſt
obtuſe, expanding, leſs than the calyx, ſitting on claws the
length of the petal, which grow from the interſtices of the
calyx.

STAM. *Filaments* five, awl'd, erect, oppoſite to the petals, the length
of the corol. *Anthers* roundiſh.

PIST. *Germ* three-corner'd, *Style* cylindric, half-threecleft, the
length of the ſtamens. *Stigma* obtuſe.

PER. *Berry* dry, three-grain'd, three-cell'd, obtuſe, reſuſe, embos'd,
with tubercles.

SEEDS ſolitary, egg'd.

OBS. *C. africanus (african) differs in the calyx being half-fivecleft, the*
ſtyle conſiſting of three coadjoin'd, with three ſtigmas. R.

1250. ARDUINA. † *Aut Millero.*

CAL. *Perianth* five-parted, erect, acute, small, permanent.

COR. one-petal'd, funnel form. *Tube* cylindric, subincurvate above.
Border five-parted, acute, expanding.

STAM. *Filaments* five, simple, inserted into the inferior tube, and shorter than it. *Anthers* oblong, within the throat of the corol.

PIST. *Germ* above, egg'd. *Style* thread-form, the length of the tube, *Stigma* two-cleft, thickish.

PER. *Berry* globe-oval, two-cell'd.

SEEDS solitary, oblong, hard.

268. BUTTNÉRIA. *Læfl. it. 313. Jacq. amer. 76.*

CAL. *Perianth* one-leaved, five-cleft, deciduous: the *divisions* egg'd, acute, most expanding.

COR. *Petals* five, oblong, short, converging, broadish above, concave; terminated by a long awl'd bristle, (which is incumbent at the base on the nectary, afterwards erect-expanding, longer than the calyx) and by two other lateral short reflected bristlelets.

Nectary five-leaved, bell-belly'd, shorter than the calyx: the leaflets inverse-egg'd, obtuse, flat, erect, half-conjoined by filaments.

STAM. *Filaments* five, awl'd, out of the nectary, each arising from the two nearest leaflets of it. *Anthers* double, distinct, two-cleft, roundish.

PIST. *Germ* roundish, five-angled. *Style* awl'd, short. *Stigma* obtuse, obscurely five-cleft.

PER. *Capsule* roundish, depress'd, five-grained, five-valved, murex'd.

SEEDS solitary, egg'd, compress'd.

BLAD-

269 MYRSINE. * *African box tree.*

CAL. *Perianth* five-parted, small: the *leaflets* rather egg'd, permanent.

COR. one-petal'd, half-fivecleft: the *divisions* half-egg'd, converging, obtuse.

STAM. *Filaments* five, scarcely discernible, inserted into the middle of the corol. *Anthers* awl'd, erect, shorter than the corol.

PIST. *Germ* subglobular, nearly filling the corol. *Style* cylindric, longer than the corol, permanent. *Stigma* large, wool-bearing, hanging without the flower.

PER. *Berry* roundish, depressed, five-cell'd.

SEEDS solitary.

OBS. *It often loses one from the number of every part of the fructification.*

The *Berry* is one-seeded with a five-cell'd nucleus. Syft. Veg. P. 197. R.

BLADHIA. *Thunberg. Fl. Jap.*

CAL. *Perianth* one-leaved, permanent, green, smooth, very short, deeply five-parted: the *divisions* egg'd, concave, rather saw-torn, expanding.

COR. one-petal'd, wheel'd, deciduous, five-parted; the *divisions* egg'd, obtuse, expanding.

STAM. *Filaments* five, very short, inserted above the throat of the corol, white. *Anthers* hearted, acute, converging into a cone, yellow, shorter than the corol.

PIST. *Germ* above, convex, smooth, green. *Style* thread-form, white, longer than the corol. *Stigma* simple, acute, greenish.

PER. *Berry* globular, crown'd with a permanent calyx, and style, smooth, one-cell'd, the size of a small pea.

SEED solitary, globular, involved in a membrane.

270. CELASTRUS. * *Euonymoides Euonymuslike.*
Isnard. A. G.. 1716. Staff-
tree.

CAL. *Perianth* one-leaved, half-fivecleft, flat, very small: the *divi-*
sions obtuse, unequal.

COR. *Petals* five, egg'd, expanding, sessile, equal, reflected on the
 margins.

STAM. *Filaments* five, awl'd, the length of the corol. *Anthers* very
 small.

PIST. *Germ* very small, immersed in a large flat *Receptacle*, which is
 marked with ten strias. *Style* awl'd, shorter than the stamens.
Stigma obtuse, three-cleft.

PER. *Capsule* colour'd, egg'd, obtusely three-corner'd, gibbous,
 three-cell'd, three-valved.

SEEDS few, egg'd, colour'd, smooth, half involved in an unequal
 colour'd *Aril* with a four-cleft mouth.

OBS. *There is a species with no style, a tripple stigma, and therefore al-*
lied to the Class five-males three females.

271. EUONYMUS. * (*Good-name.*) *Tournef. 388.*
Spindle-tree.

CAL. *Perianth* one-leaved, five-parted, flat; the *divisions* roundish,
 concave.

COR. *Petals* five, egg'd, flat, expanding, longer than the calyx.

STAM. *Filaments* five, awl'd, erect, shorter than the corol, placed
 on the germ as if on a *Receptacle*. *Anthers* twin.

PIST. *Germ* pointed. *Style* short, simple. *Stigma* obtuse.

PER. *Capsule* succulent, colour'd, five-corner'd, five-angled, five-
 cell'd, five-valved.

SEEDS solitary, egg'd, involved in the berried *Aril*.

OBS. *The fructification in some individuals or species loses a fifth part of*
its number.

In some there are no filaments besides the points of the Receptacle.

272. DIOSMA. * (*Divine odour.*) Hartogia Edit.
VI. *African Spiræa.*

CAL. *Perianth* five-leaved: the *leaflets* egg'd, acute, permanent.
COR. *Petals* five, egg'd, obtuse, sessile, erect-expanding.

Nectaries five, placed on the germ.

STAM. *Filaments* five, awl'd: *Anthers* rather egg'd, erect.

PIST. *Germ* crown'd with the nectary. *Style* simple, the length of the stamens. *Stigma* obscure.

PER. *Capsules* five, egg-pointed, compress'd, coalescing inwards at the margin, distant at the tops, gaping at the superior suture.

SEEDS solitary, oblong, egg-depress'd, pointed at the top.

Aril elastic, gaping on one side, involving a single seed.

OBS. *This genus various in sex in the figure of the Nectaries in the number of Capsules, encouraged a division into Diosmas and Hertogias, but at length more observations have reunited them. Syst. Veg.*

P. 199. R.

There are species with flowers of one-house, some with hermaphrodite ones, some with ten stamens, whereof five are sterile, the others differ otherwise from their kindred. R.

HOVENIA. Thunberg. Fl. Jap.

CAL. *Perianth* one-leaved, hairy within at the base, five-parted, permanent with deciduous teeth: the *divisions* egg'd, reflected upon the middle elevated line, deciduous.

COR. five-petal'd. *Petals* inserted between the divisions of the calyx, inverse-egg'd, very obtuse, expanding, convolute, roll'd from the stamens, white, the length of the teeth of the calyx.

STAM. *Filaments* five, inserted on the base of the calyx, shorter than the calyx. *Anthers* roundish, hid within the petals.

PIST. *Germ* above, convex, smooth. *Style* one, erect, much shorter than the calyx. *Stigmas* three, expanding, reflected, obtuse.

PER. *Capsule* egg-globular, three-furrow'd, smooth, three-valved, three-cell'd, the size of Pepper.

SEED one in each cell, lens-form, very smooth, red.

274. BRUNIA. *

CAL. *Common Perianth* roundish, folded, many-flower'd: the leaflets narrow, pointed.

Proper Perianth five-leaved: the leaflets oblong, villous, shorter than the corol.

COR. *Petals* five: *Claws* slender, the length of the calyx. *Border* expanding, with roundish folds.

STAM. *Filaments* five, capillary, flaccid, longer than the corol, inserted into the claws of the petals.

PIST. *Germ* very small, above. *Style* simple, the length of the corol. *Stigma* two-cleft.

PER. none. The *Common Receptacle* of the fructification separates the proper perianths by villous scalelets.

SEEDS solitary, rather villous, two-cell'd.

OBS. *B. nodiflora* (knot-flowering) and *paleacea* (chaffy) have two styles.

B. abrotanoides (abrotanum-like) has one end-nick'd style.

B. radiata (radiate) and *glutinosa* (glutinous) have the germ beneath and the calyxes ray'd, hence they seem to be plants of a distinct genus, which the fruit as it may distinguish them, will sometime determine. *Syst. Veg. R.*

1247. CYRILLA. *auth. D. Garden.*

CAL. *Perianth* one-leaved, five-parted: the leaflets lanced, pointed, permanent.

COR. *Petals* five, inserted into the receptacle, lanced, acute, expanding, villous with a longitudinal disk.

STAM. *Filaments* five, awl'd, erect, the length of the corol. *Anthers* rather hearted, incumbent.

PIST. *Germ* egg'd. *Style* thread-form, thicker upwards, compress'd, two-cleft above, permanent. *Stigmas* distant, glandular.

PER. *Capsule* egg-roundish, obtuse, dagger'd with the style, two-cell'd, two-valved.

SEEDS very numerous, angular, small.

275. ITÉA. † Diconangia. *Mitch.* 5.

- CAL. *Perianth* one-leaved, five-cleft, erect, pointed very small, permanent: the *divisions* acute, colour'd.
- COR. *Petals* five, lanced, long, inserted into the calyx.
- STAM. *Filaments* five, awl'd, erect, the length of the corol, inserted into the calyx. *Anthers* roundish, incumbent.
- PIST. *Germ* egg'd. *Style* cylindric, permanent, the length of the stamens. *Stigma* obtuse.
- PER. *Capsule* egg'd, many times longer than the calyx, dagger'd with the style, one-cell'd, two-valved, of two coalesced, gaping at the top.
- SEEDS numerous, very small, oblong, glossy.

276. GALAX. *Viticell Mitch.* 24.

- CAL. *Perianth* ten-leaved. The *exterior leaflets* alternate, shorter, lanced, reflected: the *interior ones* longer; lanced, acute, erect.
- COR. one-petal'd, salver-form. *Tube* cylindric, the length of the calyx. *Border* flat, five-cleft: the *divisions* obtuse.
- STAM. *Filaments* five, short. *Anthers* roundish, converging within the throat of the corol.
- PIST. *Germ* egg'd, villous. *Style* thread-form, half-twocleft, the length of the stamens. *Stigmas* roundish.
- PER. *Capsule* egg'd, one-cell'd, two-valved, colour'd, elastic.
- SEEDS two, large, convex, egg'd, callous, as it were one, two-lobed.

277. CÉDRELA. † Cedro *Loeff.* 183. Cedrela
Brown t. 10. f. 1.

CAL. *Perianth* one-leaved, bell'd, very small, five-tooth'd, withering.

COR. funnel-form, five-petal'd, the tube bellied below: *Petals* line-oblong, obtuse, erect, adjoin'd to the receptacle at one third beneath.

STAM. *Filaments* five, awl'd, sitting on the receptacle, shorter than the corol. *Anthers* oblong, bent outwards, at the top.

PIST. Proper *Receptacle* five-angled. *Germ* globular. *Style* cylindric, the length of the corol. *Stigma* headed, depresso'd.

PER. *Capsule* woody, roundish, five-cell'd, five-valv'd: the valvelets deciduous.

SEEDS numerous, fleshy, imbricated downwards, terminated by a membranous wing. *Receptacle* woody, five-angled, free.

OBS. *It may be compared with Swietenia.*

1372. ESCALLÓNIA. *Mutis.* S.

CAL. *Perianth* one-leaved, flat, five-tooth'd, permanent.

COR. *Petals* five, tongued, distant, longer.

STAM. *Filaments* five, linear, the length of the calyx. *Anthers* incumbent.

PIST. *Germ* beneath, hemispheric. *Style* cylindric, the length of the *Germ*. *Stigma* headed.

PER. *Berry* roundish, crown'd with the calyx, two-cell'd.

SEEDS numerous, small.

1373. CORYNOCÁRPUS. (*Club-fruit.*) *Forst.*
gen. no 16. S.

CAL. *Perianth* beneath, five-petal'd: the *leaflets* oblong, concave.

COR. *Petals* five, roundish, narrow at the base, erect.

Nectary. *Leaflets* five, erect, petal-form, but narrower, scarcely shorter, augmented at the base with a globular gland, alternating with the petals.

STAM. *Filaments* five, awl'd, from the base of the petals. *Anthers* oblong.

PIST. *Germ* above, globular. *Style* short, thread-form. *Stigma* obtuse.

PER. *Nut* top-club'd, one-seeded.

SEED *Nucleus* oblong.

1374. ARGOPHYLLUM. (*White-leaf.*) Forst.
gen. n. 15. S.

CAL. *Perianth* above, short, five-cleft, acute.

COR. *Petals* five, lanced, expanding, larger than the calyx.

Nectary five-angled, pyramidal, pervious at the top, consisting of very numerous converging nipples, which are conjoin'd at the base.

STAM. *Filaments* five, awl'd, inserted into the receptacle, shorter than the Nectary. *Anthers* egg'd.

PIST. *Germ* adhering to the calyx, whence it is beneath, top-shape, flat above. *Style* thread-form, the length of the Nectary. *Stigma* globular.

PER. *Capsule* flat above, three-cell'd, gaping three ways.

SEEDS very numerous, globular, porous.

OBS. *It has great affinity with Ivy, but differs in the Nectary, and perhaps in its fruit.*

278. MANGIFERA. *Mango-tree.*

CAL. *Perianth* five parted: the divisions lanced.

COR. *Petals* five, lanced, longer than the calyx.

STAM. *Filaments* five, awl'd, expanding, the length of the corol. *Anthers* nearly hearted.

PIST. *Germ* roundish. *Style* thread-form, the length of the calyx. *Stigma* simple.

PER. *Drupe* kidney-form, oblong, gibbous, compress'd.

SEED *Nucleus* oblong, compress'd, woolly.

280. HIRTELLA. † *Jacq. amer.* 8.

CAL. *Perianth* one-leav'd, five-parted: the *divisions* rather egg'd, reflected, equal, permanent.

COR. *Petals* five, roundish, concave.

STAM. *Filaments* five, bristly, flattish, very long, permanent, at length spirally involute. *Anthers* orbicular.

PIST. *Germ* roundish, flat-declining, villous. *Style* thread-form, nearly the length of the *stamens*, arising from the depressed side of the *germ*. *Stigma* simple.

PER. *Berry* oval, broader upwards, rather compressed, obscurely three-corner'd, at the forepart of whose base the villous *germ* and *style* lie.

SEED one, large, the figure of the *pericarp*.

OBS. I had formerly, and *Jacquin* lately numbered three *stamens*, but I have since observed five perfect ones in the *Herbary* of *Pison*.

1249. PLECTRÓNIA.

CAL. *Perianth* one-leaved, top-shape, obscurely five-tooth'd, or closed in the sinuses with five villous *Scales*; permanent.

COR. *Petals* five, lanced, sessile, inserted into the throat of the calyx.

STAM. *Filaments* five, very short. *Anthers* doubled, roundish, each cover'd with a calyx-scale.

PIST. *Germ* beneath. *Style* thread-form, shorter than the calyx. *Stigma* egg'd.

PER. *Berry* oblong, two-cell'd. *Burm.*

SEEDS solitary, oblong, compressed.

281. RÍBES. * *Ribesium* Dill. *elth.* 246. *Grossularia* Gooseberry. *Tournef.* 409. *Currant*.

CAL. *Perianth* one-leaved, half-fivecleft, bellied: the *divisions* oblong, concave, colour'd, reflected, permanent.

COR. *Petals* five, small, obtuse, erect, growing on the margin of the calyx.

STAM. *Filaments* five, awl'd, erect, inserted into the calyx. *Anthers* incumbent, compressed, gaping at the margin.

PIST. *Germ* roundish, beneath. *Style* two-cleft. *Stigma* obtuse.

PER. *Berry* globular, navel'd, one-cell'd: *Receptacles* two, lateral, opposite, longitudinal.

SEEDS very numerous, roundish, subcompressed.

OBS. R. *Alpinum* (*alpine*) is a plant of two-houses, de *Leers* *Fl. herb. born.*

R.

282. GRONÓVIA. † Mart. IV. P. 42.

CAL. *Perianth* one-leaved, five-cleft, beyond the middle, bell'd, colour'd, permanent: the *divisions* semilanced, erect.

COR. *Petals* five, the most minute of all, roundish, from the interstices of the calyx.

STAM. *Filaments* five, capillary, the length of the corol, inserted into the calyx, alternate with the petals. *Anthers* erect, twin.

PIST. *Germ* beneath. *Style* thread-form, longer than the stamens. *Stigma* obtuse.

PER. *Berry* dry, roundish, colour'd, one-cell'd.

SEED one, roundish, large.

1296. AQUILÍCIA. †

CAL. *Perianth* one-leaved, top-shape, five-tooth'd, very short.

COR. *Petals* five, egg'd, sessile.

Nectary pitcher'd, shorter than the corol: with five scales doubled, and as many others single, the less ones interposed.

STAM. *Filaments* five, the length of the calyx, inserted into the interior base of the nectary. *Anthers* hearted, acute.

PIST. *Germ* nearly egg'd. *Style* cylindric, the length of the Nectary. *Stigma* obtuse.

PER. *Berry* roundish, five-wreath'd, five-cell'd.

SEEDS solitary.

OBS. *The calyx is five-cleft. Syst. Veg. 202. R.*

283. HÉDERA. * Tournesf. 384. Ivy.

CAL. *Involucre* of the simple umbel, very small, many-tooth'd. *Perianth* very small, five-tooth'd, surrounding the Germ.

COR. *Petals* five, oblong, expanding, with incurved tops.

STAM. *Filaments* five, awl'd, erect, the length of the corol. *Anthers* two-cleft at the base, incumbent.

PIST. *Germ* top-shape, surrounded by the receptacle. *Style* simple, very short. *Stigma* simple.

PER. *Berry* globular, one-cell'd.

SEEDS five, large, gibbous on one side, angular on the other.

OBS. *Quinquifolia (five-leaved) departs a little from this description in the proportion of the parts of its fructification. R.*

284. VITIS. * *Tournef.* 384. *Vine.*

CAL. *Perianth* five-tooth'd, very small.

COR. *Petals* five, rude, small, falling off.

STAM. *Filaments* five, awl'd, erect-expanding, falling off. *Anthers* simple.

PIST. *Germ* egg'd. *Style* none. *Stigma* head-obtuse.

PER. *Berry* roundish, large, one-cell'd.

SEEDS five, bony, top-hearted, contracted at the base, half-two-cell'd.

OBS. *V. Heptaphylla* (*seven-leaved*) has its *petals* cohering at the top, deciduous at the base.

285. LAGOÉCIA. * (*Hare's seat,*) *Cuminoides*, *Tournef.* 155. *false Cumin.*

CAL. *Universal Involucre* eight-leaved; (the *leaflets* feather-tooth'd, fringed, reflected,) containing the umbellet.

Proper Involucre four-leaved: (the *leaflets* hair-feather'd) involving one peduncle, shorter than the leaflet itself.

Proper Perianth five-leaved, hair-manycleft, above.

COR. *Petals* five, two-horn'd, shorter than the corol.

STAM. *Filaments* five, capillary, the length of the corol. *Anthers* roundish.

PIST. *Germ* roundish, beneath the receptacle of the perianth. *Style* the length of the stamens. *Stigma* simple.

PER. none.

SEEDS solitary, egg-oblong, crown'd with the perianth.

1234. RORIDULA. † (*Dew-drop*) *N. L. Burmam.*

CAL. *Perianth* five-leaved: the *leaflets* lanced, equal, permanent.

COR. *Petals* five, oblong, equal, larger than the calyx.

STAM. *Filaments* five, awl'd, shorter by half than the corol. *Anthers* inserted above their base, awl'd, half-two-cleft, gaping at the top. *Nectary* from the bag-form base of the *Anther* protruded downwards.

PIST. *Germ* oblong. *Style* thread-form; the length of the stamens. *Stigma* top'd, nearly three-lobed.

PER. *Capsule* oblong, three-corner'd, three valved.

SEEDS very numerous.

286. SAUVAGESIA. † Jacq. amer. 77.

CAL. *Perianth* five-parted, the *leaflets* lanced, acute, concave, expanding, permanent.

COR. *Petals* five, obtuse, equal, rhomb-egg'd, the length of the calyx.

Nectary with five leaflets, smaller, alternating with the petals, oblong, erect: girt with very numerous shorter hairs.

STAM. *Filaments* five, awl'd, very short. *Anthers* oblong, acute, short.

PIST. *Germ* egg'd. *Style* simple, the length of the stamens. *Stigma* simple, obtuse.

PER. *Capsule* egg'd, pointed, one-cell'd, three-valved at the top.

SEEDS most numerous, very small, affixed in a longitudinal series.

OBS. The Calyx is five-leaved. Syst. Veg. P. 203. *He now calls the Nectary the corol, and the corol the nectary. ibid. R.*

287. CLAYTÓNIA. * Gronov.

CAL. *Perianth* two-valved, egg'd, transverse at the base.

COR. *Petals* five, inverse-hearted, claw'd, end-nick'd.

STAM. *Filaments* five, awl'd, recurved, rather shorter than the corol each inserted into the claws of the petal. *Anthers* oblong, incumbent.

PIST. *Germ* roundish. *Style* simple, the length of the stamens. *Stigma* three-cleft.

PER. *Capsule* roundish, three-cell'd, three-valved, elastic.

SEEDS three, round.

OBS. *Clayt. Portulacaria*, recedes from the generic character in having inverse-egg'd petals, no style, three simple stigmas. R.

1297. **HELICÓNIA.** *Palilia. auth. D. Allamand.*
Bihai, Plum. 3.

CAL. *Common and partial spathes* alternate, distinct, with hermaphrodite flowers.

Perianth none.

COR. *Petals* three, oblong, channel'd, erect, acute, equal.

Nectary two-leav'd, with one leaflet subequal to the petals; the other very short, channel'd, hook'd, opposite.

STAM. *Filaments* five, thread-form. *Anthers* long, erect.

PIST. *Germ* beneath, oblong. *Style* shorter than the stamens. *Stigma* long, slender, curved with a terminal head.

PER. *Capsule* oblong, lop'd, three-sided, three-cell'd.

SEEDS solitary, oblong.

Obs. *It may be distinguish'd from Musa by its three-cell'd Capsule.*

288. **ACHYRÁNTHEs.** * *Achyracantha Dill.*
elth. 7. f. 7.

CAL. *Exterior Perianth* three-leav'd, lanced, acute, permanent. The *interior Perianth* five-leaved, permanent.

COR. none.

Nectary with five valvelets, surrounding the germ, bearded at the top, concave, falling off.

STAM. *Filaments* five, thread-form, the length of the corol. *Anthers* egg'd, incumbent.

PIST. *Germ* top-shape. *Style* thread-form, the length of the stamens. *Stigma* two-cleft, villous.

PER. *Capsule* roundish, one-cell'd, not gaping.

SEED one, oblong.

Obs. The Character of the genus does not exactly agree in all the species. R.

289. CELÓSIA. * *Stachyarpagophora*. *Vaill. A.G.*
1722. *Cock's-combe*.

CAL. *Perianth* three-leaved: the *leaflets* lanceol, arid, acute, permanent, similar to the corol.

COR. *Petals* five, lanceol, pointed, erect, permanent, rigidish, calyx-form.

Nectary a margin surrounding the germ, very small, five-cleft.

STAM. *Filaments* five, awl'd, conjoin'd at the base to the plaited nectary, the length of the corol, *Anthers* versatile.

PIST. *Germ* globular. *Style* awl'd, straight, the length of the stamens. *Stigma* simple.

PER. *Capsule* globular, girt by the corol, one-cell'd circumsciss.

SEEDS few, roundish, end-nick'd.

OBS. *C. trigyna* (three-female) is furnish'd with three stigmas. R.

290. ILLECEBRUM. * *Rupp. Corrigiola. Dill.*
gen. p. 169. Mochr. p.
106. *Paronychia. Tourn.*
nef. 281. Mountain Knot-
grass.

CAL. *Perianth* five-leaved, cartilaginous, five-angled: the *leaflets* colour'd, pointed, the tops distant, permanent.

COR. none.

STAM. *Filaments* five, capillary, within the calyx. *Anthers* simple.

PIST. *Germ* egg'd, acute, ending in a short two-cleft *Style*. *Stigma* simple, obtuse.

PER. *Capsule* roundish, pointed at both ends, five-valved, one-cell'd covered with the calyx.

SEED one, roundish, acute at both ends, very large.

OBS. The Character of the Genus does not wholly agree in all the species.
R.

291. GLAUX

291. GLAUX * *Tournef.* 60. *Sea-milk-wort.*

CAL. none : unless you call the corol the calyx.

COR. *Petal* one, five parted, bell'd, erect, permanent : the *divisions* obtuse, revolute.

STAM. *Filaments* five, awl'd, erect, the length of the corol. *Anthers* roundish.

PIST. *Germ* egg'd. *Style* thread-form, the length of the stamens. *Stigma* headed.

PER. *Capful* globular, pointed, one-cell'd, five-valved.

SEEDS five, roundish. *Receptacle* very large, globular, excavated by the seeds.

292. THESIIUM. *

CAL. *Perianth* one-leaved, top-shape, permanent, half-fivecleft : the *divisions* semilanced, erect, obtuse.

COR. none : unless you so name the internally colour'd calyx.

STAM. *Filaments* five, awl'd, inserted into the base of the divisions of the calyx, shorter than the calyx. *Anthers* roundish.

PIST. *Germ* beneath, growing in the base of the calyx. *Style* thread-form, the length of the stamens. *Stigma* thickish, obtuse.

PER. none, *Calyx* containing the seed in its bottom, not gaping.

SEED one, roundish, cover'd.

OBS. T. *Alpinum* (*alpine*) loses one third of the fructification.

293. RAUVOLFIA. * *Plum.* 40. *Jacq. amer.* 47.

CAL. *Perianth* five-tooth'd, very small, permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, globular at the base. *Border* five-parted, flat : the *divisions* roundish, end-nick'd.

STAM. *Filaments* five, shorter than the tube. *Anthers* erect, simple, acute.

PIST. *Germ* roundish. *Style* very short. *Stigma* headed.

PER. *Drupe* subglobular, one-cell'd, plough'd on one side with a furrow.

SEED *Nut* convex at the base, depress'd at the top, two-cell'd.

OBS. R. *canescens* (*hoary*) has two nuts. *Jacq.*

1252. PŒDERIA.

CAL. *Perianth* one-leav'd, top-shape, five-tooth'd, permanent.

COR. one-petal'd, funnel-form, shaggy within. *Border* five-cleft, small.

STAM. *Filaments* five, awl'd, very short, from the middle of the tube. *Anthers* oblong, shorter than the corol.

PIST. *Germ* roundish. *Style* capillary, two-cleft, the length of the corol. *Stigmas* simple.

PER. *Berry* fragile, egg'd, inflated. *Rumph.*

SEEDS two, egg'd.

1251. CARISSA.

CAL. *Perianth* five-parted, acute, very small, permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, bellied in the throat, longer than the border. *Border* five-parted, flat: the *divisions* oblong.

STAM. *Filaments* five, very short, at the top of the tube. *Anthers* oblong, within the throat.

PIST. *Germ* roundish, *Style* thread-form, the length of the stamens. *Stigma* simplish.

PER. *Berries* two, oblong, two-cell'd. *Rumph.*

SEEDS seven or eight, oval, compress'd.

294. CÉRBERA. † Ahouaj. *Tournef.* 434. *Jacq. amer.* 48.

CAL. *Perianth* five-petal'd, pointed, expanding: the *leaflets* egg-lanced.

COR. one-petal'd, funnel-form. *Tube* club'd. *Border* large, five-parted: the *divisions* oblique, obtuse, more gibbous on one side; the mouth of the tube four-angled, five-tooth'd, star-converging.

STAM. *Filaments* five, awl'd, in the middle of the tube. *Anthers* erect, converging.

PIST. *Germ* roundish. *Style* thread-form, short. *Stigma* headed, two-lobed.

PER. *Drupe* very large, roundish, fleshy, excavated with a longitudinal furrow, and two dots on the side.

SEED *Nut* two-cell'd, five-valved, retuse.

296. GARDENIA. * *Ellis. Cape Jasmine.*

CAL. *Perianth* one-leaved, five-angled, five-parted: the *divisions* erect, upright, sword-form, vertical, distant, permanent.

COR. one-petal'd, salver-form. *Tube* cylindric, longer than the calyx. *Border* five-parted, flat: the *divisions* inverse-egg'd, the length of the tube: the solar margin straighter.

STAM. *Filaments* none. *Anthers* five, linear, inserted into the mouth of the throat above its base, the length of half the border; elongated downwards within the throat.

PIST. *Germ* beneath. *Style* thread-form, the length of the tube, afterwards club'd, ending in a *Stigma* protruded, two-lobed, egg'd, obtuse, large.

PER. *Berry* dry, two-cell'd? *Ellis.*

SEEDS very numerous. *THE LOWEY*

OBS. *It is most distinguished by the vertical divisions of the calyx: that is, one margin being interior, the other exterior.*

The following natural character of GARDENIA is given in the Suppl. Plant.

CAL. one-leaved, five-tooth'd, or five-parted, or five-appendaged.

COR. one-petal'd, funnel-form: *Border* flat, five-or nine-cleft,

STAM. *Filaments* none. *Anthers* inserted into the throat of the tube.

PIST. *Germ* beneath. *Style* thread-form, or club'd. *Stigma* thicken'd, two-parted.

PER. *Berry* dry, two or four-cell'd.

SEED flat-depress'd, placed in a double series in each cell.

1295. ALLAMÁNDIA. *Galarips. Auth. D. Allamand.*

CAL. *Perianth* five-leaved: the *leaflets* egg'd, acute.

COR. one-petal'd, funnel-form. *Tube* cylindric. *Border* half-five-cleft, bellied: the *divisions* expanding, obtuse.

STAM. *Filaments* scarcely any. *Anthers* five, arrow'd, converging, in the throat of the tube.

PIST. *Germ* oval, girt at the base with an annular margin. *Style* thread-form, the length of the tube. *Stigma* beaded, contracted in the middle.

PER. *Capsule* orbicular, lens-compress'd, hedgehog'd, one-cell'd, two-valved.

SEEDS very numerous, imbricated, orbicular, flat, with a membranous wing on the margin.

295. VIN-

295. VINCA. * *Tournef.* 45. *Perriwinckle.*

CAL. *Perianth* five-parted, erect, acute, permanent.

COR. one-petal'd, salver-form. *Tube* longer than the calyx, cylindric below, broader above, engraved with five lines: the mouth five-corner'd. *Border* horizontal, five-parted: the *divisions* adjoin'd to the top of the tube, broader outwards, obliquely lop'd.

STAM. *Filaments* five, very short, inflected, retroflected. *Anthers* membranous, obtuse, erect, incurved, meal-bearing on both sides of the margin.

PIST. *Germ* two, roundish, at the sides of which lie two roundish *Corpuscles*, one *Style* is common to both, cylindric, the length of the stamens. *Stigmas* two: the *inferior* one orbicular, flat; the *superior* headed, concave.

PER. *Follicles* two, columnar, long, pointed, erect, two-valved, gaping longitudinally.

SEEDS numerous, oblong, cylindric, furrow'd, naked,

297. NERIUM. * *Tournef.* 374. *Oleander. Rose-Bay.*

CAL. *Perianth* five-parted, acute, very small, permanent.

COR. one-petal'd, funnel-form. *Tube* cylindric, shorter than the border. *Border* very large, five-parted: the *divisions* broad, obtuse, oblique.

Nectary a Crown terminating the tube, short, lacerated into capillary segments.

STAM *Filaments* five, awl'd, very short, in the tube of the corol. *Anthers* arrow'd, converging, terminated with a long thread.

PIST. *Germ* roundish, two-cleft. *Style* cylindric, the length of the tube. *Stigma* lop'd, sitting on an orblet.

PER. *Follicles* two, columnar, long, pointed erect, one-valved, gaping longitudinally.

SEEDS numerous, oblong, crown'd with a pappus, imbricately placed.

299. ECHI-

299. ECHITES. † Jacq. amer. 29.

CAL. *Perianth* five-parted, acute, small.

COR. one-petal'd, funnel-form. *Border* five-cleft, flat, most-expanding.

Nectary five glands standing round the germ.

STAM. *Filaments* five, slender, erect. *Anthers* rigid, oblong, pointed, converging.

PIST. *Germ* two. *Style* thread-form, the length of the stamens. *Stigma* oblong-headed, two-lobed, annexed to the anthers with glue.

PER. *Follicles* two, very long, one-cell'd, one-valved.

SEEDS very numerous, imbricated, crowned with a long pappus.

OBS. *E. caudata* (tail'd) has the border of its corol terminated with very long linear tops. R.

298. PLUMÉRIA. * Tournef. 439.

CAL. *Perianth* five-parted, obtuse, very small.

COR. one-petal'd, funnel-form. *Tube* long, gradually enlarging. *Border* five-parted, erect-expanding: the *divisions* egg-oblong, oblique.

STAM. *Filaments* five, awl'd, from the middle of the tube. *Anthers* converging.

PIST. *Germ* oblong, two-cleft. *Styles* scarcely any. *Stigma* double, pointed.

PER. *Follicles* two, long, pointed, bellied, bent downwards, nodding, one-cell'd, one-valved.

SEEDS numerous, oblong, inserted at the base into a larger egg'd membrane, imbricated.

300. CAMERÁRIA. † *Plum.* 29.

CAL. *Perianth* five-cleft, acute, converging, very small.

COR. one-petal'd, funnel-form. *Tube* cylindric, long, bellied at the top and bottom. *Border* five-parted, flat: the *divisions* lanced, oblique.

STAM. *Filaments* five, very small, from the middle of the tube. *Anthems* converging.

PIST. *Germes* two, with appendixes at the sides. *Styles* scarcely any. *Stigmas* obscure.

PER. *Follicles* two, horizontally reflected, oblong, obtuse at both ends, emitting a lobe near both sides of the base, one-cell'd, one-valved.

SEEDS numerous, egg'd, inserted at the base into a larger egg'd membrane, imbricated.

301. TABERNÆMONTANA. † *Plum.* 30.

CAL. *Perianth* five-cleft, acute, converging, very small.

COR. one-petal'd, funnel-form. *Tube* cylindric, long. *Border* five-parted, flat: the *divisions* obtuse, oblique.

Glands of the *Nectary* five, two-cleft, standing round the germ.

STAM. *Filaments* five, very small, from the middle of the tube. *Anthems* converging.

PIST. *Germes* two, simple. *Style* awl'd. *Sigma* oblong, headed.

PER. *Follicles* two, horizontally reflected, bellied, pointed, one-cell'd, one-valved.

SEEDS numerous, egg-oblong, obtuse, wrinkled, immersed in pulp, imbricated.

OBS. *T. grandiflora* (*great-flower'd*) has the two exterior leaflets of the calyx hearted, the rest narrow. R.

302. CEROPEGIA. †

CAL. *Perianth* very small, five-tooth'd, acute, permanent.

COR. one-petal'd: with a large, globular base, which the oblong, cylindric *Tube* terminates. *Border* very small, five-tooth'd, pointed, converging at the tops, gaping on the sides.

STAM. *Filaments* five, at the base of the corol, very small, incurved, converging. *Anthems* small.

PIST. *Germ* very small. *Style* scarcely any. *Stigmas* two.

PER. *Follicles* two, cylindric, pointed, very long, erect, one-cell'd, one-valved.

SEEDS numerous, imbricated, oblong, crown'd with a pappus.

II. TWO

II. TWO FEMALES.

(Digynia.)

1253. PERGULARIA.

- CAL. *Perianth* one-leaved, five-cleft, erect, acute, permanent.
 COR. one-petal'd, salver-form. *Tube* cylindric, longer than the calyx.
Border five-parted, flat; the *divisions* oblong.
Nectaries five, half-arrow'd, erect, compress'd, attenuated in o
 dagger, incurved, with a nodding tooth at the exterior base.
 STAM. *Filaments* scarcely any. *Anthers* five, immersed in the lop'd
 corpuscle of the *Stigma*.
 PIST. *Germ*s two, egg'd, pointed. *Styles* none. A lop'd corpuscle
 in the place of the *Stigma*.
 PER. *Follicles* two.
 SEEDS
 OBS. Allied to *Periploca greca* (greek.)

1375. MELÓDINUS. Forst. gen. n. 19. S.

- CAL. *Perianth* beneath, five-parted, permanent. *Leaflets* egg'd, in-
 cumbent on the margin.
 COR. one-petal'd, contorted. *Tube* cylindric, three times longer than
 the calyx. *Border* wheel'd, five-parted. *Divisions* sickled
 notchletted. *Nectary* in the middle of the tube, star'd. *Di-*
visions five-cleft, torn, as in *Nerium*.
 STAM. *Filaments* five, awl'd, very short, in the middle of the tube.
Anthers egg'd.
 PIST. *Germ* globular, above. *Style* columnar, two-partible. *Stigmas*
 conic, acute.
 PER. *Berry* fleshy, globular, many-seeded: with a fleshy *Partition*.
 SEEDS egg'd, numerous, compress'd, nestling in the pulp.

303. PERIPLOCA. * (*round-embracing*) Tournef.
22. *Virginian Silk.*

CAL. *Perianth* five-cleft, very small: (the *divisions* egg'd,) permanent.

COR. one-petal'd, wheel'd, flat, five-parted: the *divisions* oblong, linear, lop'd, end-nick'd.

Nectary very small, five-cleft, surrounding the fructification. *Filaments* five, incurved, shorter than the corol, and alternate with it.

STAM. *Filaments* three, incurved, converging, villous. *Anthers* erect, double, lateral.

PIST. *Germ* very small, two-cleft. *Style* cylindric. *Stigma* headed, five-corner'd, on which sit five, inverse-egg'd, pedicel'd Glands.

PER. *Follicles* two, large, oblong, bellied, one-cell'd, one-valv'd.

SEEDS very numerous, imbricated, crown'd with a pappus. *Receptacle* longitudinal, thread-form.

304. CYNANCHUM. *

CAL. *Perianth* one-leaved, five-tooth'd, erect, very small, permanent.

COR. one-petal'd. *Tube* scarcely any. *Border* five-parted, flat: the *divisions* linear, long.

Nectary in the center of the flower, the length of the corol, erect, cylindric: the *mouth* five-tooth'd.

STAM. *Filaments* five, the length of the nectary, parallel. *Anthers* contiguous, within the mouth of the corol.

PIST. *Germ* oblong, two-cleft. *Style* scarcely any. *Stigmas* two, obtuse.

PER. *Follicles* two, oblong, pointed, one-cell'd, gaping longitudinally.

SEEDS numerous, oblong, crown'd with a pappus, imbricately placed.

OBS. *C. viminale* (twiggy) recedes a little from the character here given. *Mant.* 392. R.

305. APÓ-

305. APÓCYNUM. * *Tournef.* 20. *Dog's-bane.*

CAL. *Perianth* one-leaved, half-fivecleft, erect, acute, very small, permanent.

COR. one-petal'd, bell'd, roundish, half-fivecleft: the *divisions* revolute.

Nectary with five corpuscles, glandular, oval, surrounding the germ.

STAM. *Filaments* five, very short. *Anthers* five, oblong, erect, acute, two-cleft at the base, converging.

PIST. *Germes* two, egg'd. *Styles* scarcely any. *Stigmas* roundish, rather larger than the germs.

PER. *Follicles* two, long, pointed, one-valv'd, one-cell'd.

SEEDS numerous, very small, crown'd with a long pappus. *Receptacle* awl'd, very long, rough, free.

306. ASCLÉPIAS. * *Tournef.* 22. *Apocynum*
Tournef. 21. *Swallow-wort.*

CAL. *Perianth* five-cleft, acute, very small, permanent.

COR. one-petal'd, flat, or reflected, five-parted: the *divisions* egg-pointed, slightly turned to the sun.

Nectaries five, surrounding the fructification, each of which obliquely egg-ear'd outwards, protrudes from its bottom towards the fructification an acute hornlet.

A lop'd *Corpuscle* involved at the sides with five scales, and gaping at the sides with as many clefts, covers the fructification.

STAM. *Filaments* scarcely any. *Anthers* five, inserted into the lop'd corpuscle of the nectary within the scales, acute.

PIST. *Germes* two, egg'd, pointed. *Styles* scarcely any. *Stigmas* simple.

PER. *Follicles* two, large, oblong, pointed, bellied, one-cell'd, one-valved.

SEEDS numerous, imbricated, crown'd with a pappus. *Receptacle* membranous free.

OBS. Mr. Kœlreuter has described the true parts subservient to fructification of the *Asclepiases* and other conorted plants, in *Aët. Pa. Vol. 3. phys. p. 41. seq. R.*

307. STAPÉLIA. *

CAL. *Perianth* one-leaved, five-cleft, acute, small, permanent.

COR. one-petal'd, flat, five-cleft beyond the middle: the *divisions* broad, flat, pointed.

Nectary a flat five-cleft *Starlet*, (the *divisions* linear,) surrounding the fructification with lacerated tops. Another *Starlet* flat, five-cleft (the *divisions* acute, intire) covering the fructification.

STAM. *Filaments* five, flat, erect, broad. *Anthers* linear, adjoined to both sides of the filament.

PIST. *Germ*s two, oval, flat inwards. *Styles* none. *Stigmas* obscure.

PER. *Follicles* two, oblong, awl'd, one-cell'd, one-valv'd.

SEEDS numerous, imbricated, compress'd, crown'd with a pappus.

OBS. In some there is a flat orblet placed under the *Starlets*.

1208. LINCÓNIA. *

CAL. *Perianth* beneath, four-leaved: the *leaflets* egg'd, permanent: the inferior opposite pair shorter.

COR. *Petals* five, lanced, sessile, erect.

Nectary a dimple engraved in the base of the petal, girt below with a margin.

STAM. *Filaments* five, awl'd, margin'd, erect, middle-size. *Anthers* obtuse, arrow'd with gaping, nodding earlets.

PIST. *Germ* half-beneath the corol (above in respect to the calyx.) *Styles* two, thread-form, striated. *Stigmas* simple.

PER. *Capsule* two-cell'd.

SEEDS two?

OBS. The *Perianth* may perhaps be taken for the bractes; then the flower is intirely above.

308. HERNIÁRIA. * *Tournef.* 288. *Rupture-wort.*

CAL. *Perianth* one-leaved, five-parted, acute, expanding, colour'd within, permanent.

COR. none.

STAM. *Filaments* five, awl'd, minute, within the divisions of the calyx. *Anthers* simple.

Other *Filaments* five, alternate with the calyx, sterile.

PIST. *Germ* egg'd. *Style* scarcely any. *Stigmas* two, pointed, the length of the *Style*.

PER. *Capsule* small, in the bottom of the calyx, cover'd, scarcely gaping.

SEED solitary, egg-pointed, glossy.

OBS. *H. fruticosa* (shrubby) resigns a fifth part of the number in the calyx and stamens.

H. lenticulata (lenticulated) differs a little in its character from its kindred. R.

309. CHENOPÓDIUM. * (*Goose-foot*) *Tournef.* 288. *Wild Orach.*

CAL. *Perianth* five-leaved, concave, permanent: the divisions egg'd, concave, membranous on the margin.

COR. none.

STAM. *Filaments* five, awl'd, opposite to the leaves of the calyx, and the length of them. *Anthers* roundish, twin.

PIST. *Germ* orbicular. *Style* two-parted, short. *Stigma* obtuse.

PER. none. *Calyx* closed, five-corner'd, five-angled, (the angles compressed) deciduous.

SEED one, lenticular, above.

OBS. A three-cleft *Style* is observed in some species.

310. BÉTA. *Tournef.* 286. *Bete.*

CAL. *Perianth* five-leaved, concave, permanent: the divisions egg-oblong, obtuse.

COR. none.

STAM. *Filaments* five, awl'd, opposite to the leaves of the calyx, and the length of them. *Anthers* roundish.

PIST. *Germ* in a manner within the receptacle. *Styles* two, very short, erect. *Stigmas* acute.

PER. *Capsule* within the bottom of the calyx one-cell'd, deciduous.

SEED one, kidney-form, compress'd, involved in the calyx.

311. SALSOLA. * Kali. Tournef. 128. Glass-wort.

CAL. *Perianth* five-leaved, : the *divisions* egg'd, concave, permanent.

COR. none : unless you call the calyx the corol.

STAM. *Filaments* five, very short, inserted into the *divisions* of the calyx.

PIST. *Germ* globular. *Style* three or two-parted, short. *Stigmas* recurved.

PER. *Capsule* egg'd, involved in the calyx, one-cell'd.

SEED one, very large, spiral like a snail-shell.

OBS. *Some species have three styles.* R.

312. ANABASIS. † Berry-bearing Glass-wort.

CAL. *Perianth* three-leaved : the *leaflets* roundish, concave, obtuse, expanding.

COR. *Petals* five, egg'd, equal, less than the calyx, permanent.

STAM. *Filaments* five, thread-form, longer than the corol. *Anthers* roundish.

PIST. *Germ* roundish, pointed, ending in two styles. *Stigmas* obtuse.

PER. *Berry* roundish, surrounded with the dilated calyx.

SEED one, snail-shell'd.

313. CRÉSSA. * Anthyllis. Magn. char.

CAL. *Perianth* five-leaved : the *leaflets* egg'd, obtuse, incumbent, permanent.

COR. one-petal'd, falver-form : *Tube* the length of the calyx, bellied beneath. *Border* five-parted : the *divisions* egg'd, acute, expanding.

STAM. *Filaments* five, capillary, long, fitting on the tube of the corol. *Anthers* roundish.

PIST. *Germ* egg'd. *Styles* two, thread-form, the length of the *stamens*. *Stigmas* simple.

PER. *Capsule* egg'd, one-cell'd, two-valved, rather longer than the calyx.

SEED one, egg-oblong.

1254. STÉRIS.

CAL. *Perianth* one-leaved, five-parted: the *divisions* oblong, acute, permanent.

COR. one-petal'd, wheel'd, five-parted, expanding, rather longer than the calyx.

STAM. *Filaments* five, awl'd, erect, the length of the calyx. *Anthers* arrow'd.

PIST. *Germ* roundish. *Styles* two, thread-form, the length of the *stamens*. *Stigmas* obtuse.

PER. *Berry* globular, one-cell'd.

SEEDS very numerous, oblong.

314. GOMPHRENA. * *Amaranthoides Tournef.*

423. *Caraxeron Vaill. A. G.*

1722. *Globe-Amaranth.*

CAL. *Perianth* colour'd: the exterior one three-leaved: the two *leaflets*, converging, keel'd,

COR. five-petal'd, erect: *Petals* awl'd, permanent, rude, villous.

Nectary a cylindric tube, the length of the corol: with a spreading five-tooth'd mouth.

STAM. *Filaments* five, scarcely discernible, within the mouth of the *nectary*. *Anthers* closing the mouth of the *nectary*, erect.

PIST. *Germ* egg'd with a point. *Style* half-two-lobed, thread-form. *Stigmas* simple, the length of the *stamens*.

PER. *Capsule* roundish, circumscised.

SEED one, large, roundish, with an oblique top.

315. BOSEÁ. *Golden-rod tree.*

CAL. *Perianth* five-leaved, equal: the *leaflets* roundish, concave, erect, thinner on the margin.

COR. none.

STAM. *Filaments* five, awl'd, longer than the calyx. *Anthers* simple.

PIST. *Germ* egg-oblong, piked. *Style* none. *Stigmas* two.

PER. *Berry* globular, one-cell'd.

SEED one, round, pointed.

OBS. *Therefore this genus has a great affinity with Celtis and Ulmus.*

316. UL-

316. ULMUS. * *Tournef.* 372. Elm.

CAL. *Perianth* one-leaved, top-shape, wrinkled. *Border* five-cleft, erect, colour'd within, permanent.

COR. none.

STAM. *Filaments* five, awl'd, twice as long as the calyx. *Anthers* four-furrow'd, erect, short.

PIST. *Germ* orbicular, erect. *Styles* two, shorter than the stamens, reflected. *Stigmas* pubescent.

PER. *Berry* oval, large, juiceless, membrane-compress'd.

SEED one, roundish, slightly compress'd.

317. NAMA. †

CAL. *Perianth* five-leaved; the *leaflets* lanced, straight, spreading, permanent.

COR. *Petals* five, egg'd, shorter than the calyx, expanding.

STAM. *Filaments* five, capillary, the length of the corol. *Anthers* oblongish.

PIST. *Germ* egg'd. *Styles* two, capillary, erect, the length of the stamens. *Stigmas* obtuse, expanding.

PER. *Capsule* oval, two-valved, one-cell'd, the length of the calyx.

SEEDS numerous, very small: each affixed at the base to the oval *Receptacle*.

OBS. The corol is five-parted. *Syst. Veg.* p. 219. R.

318. HYDROLEA. *Læst.* 310.

CAL. *Perianth* five-leav'd: the *leaflets* awl'd, erect.

COR. one-petal'd, wheel-bell'd. *Tube* shorter than the calyx. *Border* five-parted, expanding: the *divisions* egg'd, incumbent.

STAM. *Filaments* five, awl'd, hearted at the base. *Anthers* oblong, curved, incumbent.

PIST. *Germ* egg'd. *Styles* two, thread-form, expanding. *Stigmas* lop'd.

PER. *Capsule* egg'd, two-valved, two-cell'd.

SEEDS most numerous, minute, imbricated; the *Receptacle* egg'd large.

OBS. The Author now calls the corol wheel'd. *Syst. V.* 220. R.

319. SCHRE-

319. SCHREBÉRA. †

CAL. *Perianth* five-parted: the *divisions* egg'd, equal, shorter by half than the corol.

COR. one-petal'd, funnel-form, five-cleft: the *divisions* oblong, obtuse.

Nectary with five scales, roundish, rather fringed, minute, adjacent to the interior base of the filaments.

STAM. *Filaments* five, thread-form, inserted into the throat of the corol, shorter than the *divisions* of the corol. *Anthers* roundish.

PIST. *Germ* roundish, two-lobed. *Styles* two, thread-form, shorter than the stamens. *Stigmas* club'd, the length of the styles.

PER. *Drupe*? two-grain'd? two-cell'd, depress'd?

SEEDS solitary.

320. HEUCHÉRA.

CAL. *Perianth* one-leaved, half-fivecleft, rounded, narrow: the *divisions* obtuse.

COR. *Petals* five, inserted into the margin of the calyx, line-oval, the length of the calyx.

STAM. *Filaments* five, awl'd, erect, twice as long as the calyx. *Anthers* roundish.

PIST. *Germ* roundish, half-twocleft, ending in two straight styles, the length of the stamens. *Stigmas* obtuse.

PER. *Capsule* egg'd, pointed, half-twocleft, two-beaked, two-cell'd, the beaks reflected.

SEEDS many, small.

447. VELÉZIA. *

CAL. *Perianth* one-leaved, thread-form, five-corner'd, permanent: the *mouth* fivetooth'd, pointed, erect, very small.

COR. *Petals* five, very short, two-tooth-end-nick'd; the claws thread-form, the length of the calyx.

STAM. *Filaments* five, often six, capillary, scarcely the length of the calyx. *Anthers* hearted.

PIST. *Germ* cylindric, short, terminated by the receptacle of the styles. *Styles* two, thread-form, the length of the stamens. *Stigmas* simple.

PER. *Capsule* cylindric, cover'd, one-cell'd.

SEEDS very numerous, placed in a simple series,

OBS. The Stamens are often six, but five in a natural state, as later observations have demonstrated. Syst. Veg. R.

321. SWÉR-

321. SWÉRTIA. *

CAL. *Perianth* five-parted, flat, permanent: the *divisions* lanced.

COR. one-petal'd, wheel'd: *Border* flat, five-parted: the *divisions* lanced, greater than the calyx, with connected claws.

Nectaries ten, two dots, as it were excavated at the base of each division of the corol on the internal part, surrounded with small erect bristles.

STAM. *Filaments* five, awl'd, erect-expanding, shorter than the corol. *Anthers* incumbent.

PIST. *Germ* egg-oblong. *Style* none. *Stigmas* two, simple.

PER. *Capsule* columnar, pointed at both ends, one-cell'd, two-valved.

SEEDS numerous, small.

OBS. *There are some species also with four-cleft flowers.* 4, 5. *The Nectaries in one species become prominent beneath with hornlets.*

4.

322. GENTIÁNA. * *Tournef.* 40. *Centaurium minus Tournef.* 48. *Gentian. Felwort.*

CAL. *Perianth* five-parted, acute: the *divisions* oblong, permanent.

COR. *Petal* one, tubular beneath, imperforated, five-cleft above, flat, withering, the figure various.

STAM. *Filaments* five, awl'd, shorter than the corol. *Anthers* simple.

PIST. *Germ* oblong, cylindric, the length of the stamens. *Styles* none. *Stigmas* two, egg'd.

PER. *Capsule* oblong, columnar, pointed, slightly two-cleft at the top, one-cell'd, two-valved.

SEEDS numerous, small. *Receptacles* two, each longitudinally adjoin'd to a valvelet.

OBS. *The figure of the fruit is constant. But the number and figure of the flower vary greatly in different species.*

There are Species which exclude a fifth part of the number in the flower.

There is a Species which adds three parts of the number in the flower.

One Species has the neck of its corol expanded; another has the neck closed with hairs; another has the divisions of the corol fringed; another has a plaited, bell'd erect border; another a star'd border, with divisions intersected with subdivisions; another has a bell'd; another a funnel-form corol, &c.

1376. RUSSÉLIA. S.

CAL. *Perianth* five-leaved, expanding, permanent. *Leaflets* lanced, acute, concave.

COR. *Petals* five, lanced, expanding, twice as short as the calyx.

STAM. *Filaments* five, bristly, erect, the length of the calyx, inserted between the divisions of the corol. *Anthers* oblong, incumbent.

PIST. *Germ* beneath. *Styles* two, thread-form, the length of the stamens. *Stigmas* simple, obtuse.

PER. *Capsule* one-cell'd, oblongish, lop'd, ploughed with five lines, crowned with a permanent calyx.

SEEDS very numerous, oblongish, convex on one side, flat within.

BUMALDA. Thunberg. Fl. Jap.

CAL. *Perianth* one-leaved, five-parted, almost to the base: the divisions egg'd, obtuse, concave, iron-white, rather shorter than the corol.

COR. five-petal'd, white. *Petals* inverse line-egg'd, inserted on the germ.

STAM. *Filaments* five, inserted on the claws of the petals, thread-form, erect, hairy, almost the length of the corol. *Anthers* inserted on the back, egg'd, twin.

PIST. *Germ* above, conic, villous. *Styles* two, erect, villous, the length of the filaments. *Stigmas* simple, headed, lop'd.

PER. I have not seen it mature, but it seems to be a two-cell'd capsule.

SEED - - -

323. PHÝLLIS. * Bupleuroides Bærh. False
Hare's-ear.

CAL. Umbel none, (but a panicle).

Perianth very small, above, two leaved, obscure.COR. *Petals* five, lanced, obtuse, revolute, scarcely connected at the base.STAM. *Filaments* five, shorter than the corol, capillary, flaccid, *Anthers* simple, oblong.PIST. *Germ* beneath. *Style* none. *Stigmas* two, awl'd, pubescent, reflected.PER. none. *Fruit* top-oblong, obtuse, angular.

SEEDS two, parallel, convex, angular on one side, flat on the other, broader above.

OBS. The *Stigmas* as in *Grasses*, *Elm*, *Tetragonia*.

324. ERYNGIUM. Tournef. 173. Eryngo.

CAL. *Common Receptacle* conic, with *chaff* separating the sessile florets. *Involucre* of the receptacle many-leaved, flat, surpassing the florets. *Proper Perianth* five-leaved, erect, acute, surpassing the corol, sitting on the germ.COR. *universal* uniform, roundish: the *Florets* all fertile.*Proper* five-petal'd: the *Petals* five, oblong, with tops inflected to the base, their length constricted by a line.STAM. *Filaments* five, capillary, straight, surpassing the florets. *Anthers* oblong.PIST. *Germ* hispid, beneath. *Styles* two, thread-form, straight, the length of the stamens. *Stigmas* simple.PER. *Fruit* egg'd, divisible two ways.

SEEDS oblong, columnar.

OBS. In some species the *Seeds* are drop'd from the crust of the *Pericarp*, in others they remain included.

325. HYDROCÓTYLE. * (*Water-vessel.*) *Tournef.* 173. *Water-navelwort.*

CAL. *Umbel* simple.

Involucre oftner four-leaved, small.

Perianth scarcely any.

COR. *universal* uniform in figure, not in situation: the *Florets* all fertile.

Proper five-petal'd: the *Petals* egg'd, acute, expanding, intire.

STAM. *Filaments* five, awl'd, shorter than the corol. *Anthers* very small.

PIST. *Germ* erect, compress'd, orbicular, beneath, proper, targeted. *Styles* two, awl'd, very short. *Stigmas* simple.

PER. none. *Fruit* orbicular, compressed, transversly two-partible.

SEEDS two, semiorbicular, compress'd.

326. SANÍCULA. * *Tournef.* 173. *Sanicle.*

CAL. *Universal Umbel* with very few rays, (often four)

Partial with very numerous ones, crowded, rather headed.

Universal Involucre halved, placed outwardly: every where furrounding the *partial* one shorter than the florets.

Perianth scarcely discernible.

COR. *Universal* uniform: *Florets* of the disk abortive.

Proper with five petals, compress'd, inflected, closing the flower.

STAM. *Filaments* five, simple, twice as long as the corollets, erect.

Anthers roundish.

PIST. *Germ* hispid, beneath. *Styles* two, awl'd, reflected. *Stigmas* acute.

PER. none. *Fruit* egg-acute, rugged, two-partible.

SEEDS two, convex, murex'd, on one side, flat on the other.

327. ASTRANTIA. * *Tournef.* 166. *Black*
Master-wort.

- CAL. *Universal Umbel* with very few rays (often three,) the *partial* one with very numerous ones.
Universal Involucre with leaflets doubled to the rays.
Partial one with leaflets about twenty, lanced, expanding, equal, colour'd, longer than the umbellet.
Proper Perianth five-tooth'd, acute, erect, permanent.
- COR. *universal* uniform. *Florets* of the ray abortive.
Proper with petals five, erect, twocleft-inflexed.
- STAM. *Filaments* five, simple, the length of the corol. *Anthers* simple.
- PIST *Germ* oblong, beneath. *Styles* two, erect, thread-form. *Stigmas* simple, expanding.
Fruit egg'd, obtuse, crown'd, striated, two-partible.
- SEEDS two, egg-oblong, cover'd with the crust of the pericarp, wrinkled.

328. BUPLEURUM. * *Tournef.* 163. *Hare's-ear.*

- CAL. *Universal Umbel* with fewer rays than ten.
Partial with scarcely ten rays, erect-expanding.
Universal Involucre many-leaved. *Partial-one* five-leaved, larger; the leaflets expanding, egg'd, acute.
Proper Perianth obscure.
- COR. *universal* uniform. *Florets* all fertile.
Proper with petals five, involute, intire, very short.
- STAM. *Filaments* five, simple. *Anthers* roundish.
- PIST. *Germ* beneath. *Styles* two, reflected, small. *Stigmas* very small.
- PER. none. *Fruit* roundish, compress'd, striated, two-partible.
- SEEDS two, egg-oblong, convex on one side, striated flat on the other.
- OBS. *In most species the beautiful Involucels often surpass the corollet.*
The Involucres vary in the number of Leaves. R.

329. ECHI-

329. ECHINÓPHORA. † (*Hedgehog-bearer.*)
Tournef. 423. *Prickly Parsnep.*

- CAL. *Universal Umbel* with very numerous rays: the intermediate ones shorter. *Partial umbel* with numerous sessile florets: the central one sessile; receiving the germs within the pedicels.
Universal Involucre with a few acute rays. *Partial one* top-shape, one-leaved, six-cleft, acute, unequal.
Proper Perianth five-tooth'd, permanent, very small.
- COR. *universal* not uniform, radiate. Male *Florets* abortive. The female the central one of the umbel.
Proper one, five-petal'd: the *Petals* unequal, spreading.
- STAM. *Filaments* five, simple. *Anthers* roundish.
- PIST. *Germ* oblong, beneath, cloathed with the involucre. *Styles* two, simple. *Stigmas* simple.
- PER. none; in whose place there is an indurated dagger'd *Involucre*.
- SEED one, egg-oblong.

1377. COPRÓSMA. *Forst. gen. n. 69. S.*

- * *Flowers hermaphrodite.*
- CAL. *Perianth* beneath, one-leaved, short, five-parted, permanent.
Divisions acute, expanding.
- COR. one-petal'd, funnel-form, much larger than the calyx. *Border* from five to seven-parted. *Divisions* acute, erect.
- STAM. *Filaments* five, six, seven, capillary. *Anthers* awl'd, heart-end-nick'd at the base, subincurvate.
- PIST. *Germ* above, oblong. *Styles* two, thread-form, cohering at the base, longer than the corol, divaricated. *Stigma* most simple.
- PER. *Berry*, egg-globed, two-seeded.
- SEEDS two, egg'd, remote in the pulp, flat on the interior side, convex on the exterior.
- * *The male and female flowers are similar to the Hermaphrodites.*
- OBS. *I insert here a Genus as yet obscure, I see it has an affinity with the umbellate ones.*

341. HASSELQUISTIA. *

CAL. *Umbel* expanding. *Umbellets* ten, five of which in a circle.

The rudiment of the *central Umbellet* is a dead vitiated corpuscle, pedicel'd, nearly three-corner'd, fleshy, depress'd, black, hoary above with white hairs.

Involucre very small, five-leaved, awl'd, reflected. *Involucels* halved: those of the exterior three-leaved, awl'd, nodding, shorter than the umbellet.

The *fruit-bearing Umbel* converging.

COR. *Flowers* radiate, even those of the interior umbellets. *Florets of the Ray* hermaphrodite: the petals unequal, two-cleft-incurcate; the outmost petal with two large divisions, and the nearest with one (and therefore each corollet hath four large divisions and six small ones). *Florets of the interior disk* male: the petals subequal, two-cleft-incurcate (all the divisions small).

STAM. *Filaments* in all the florets five, longer than the lesser petals. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* thread-form, permanent. *Stigmas* obtuse.

PER. none.

SEEDS the outmost double, oval, smooth, with a thicker notched margin. *Interior ones* solitary, hemispheric, bowing, pitcher'd, with an hollow side, also furnished with two styles.

No seeds on the interior Disk.

OBS. The character is taken from the *Mantissa*. p. 217. R.

330. TORDYLIUM. * *Tournef.* 170. *Heartwort of Crete.*

CAL. *Universal Umbel* unequal, manifold. *Partial one* unequal manifold, very short, flat.

Universal Involucre with leaflets slender, undivided, oftner the length of the umbel. *Partial one* halved, longer outwardly than the umbellet.

Proper Perianth five-tooth'd.

COR. *Universal* not uniform, radiate. *Florets* all fertile.

Proper one of the disk with petals five, heart-inflected, equal.

Proper one of the ray consimilar, but with the outmost petal very large, two-parted.

STAM. In all the flowers the *Filaments* five, capillary. *Anthers* simple.

PIST. In all the flowers the *Germ* roundish, beneath. *Styles* two, small. *Stigmas* obtuse.

PER. *Fruit* suborbicular, compress'd, notch'd on the margin, two-partible.

SEEDS two, roundish, nearly flat: with an elevated notch'd margin.

OBS. T. *Antriscus* has a *subradiate umbel*, and male florets on the Disk of the umbellets. Lin. R.

331. CAU.

331. CAUCALIS. * *Tournef.* 171. *False Parsley.*

CAL. *Universal Umbel* unequal, with very few rays.

Partial one unequal, with more copious rays, of which the five exterior are larger.

Universal Involucre with leaflets the number of the rays, undivided, lanced, membranous on the margin, egg'd, short.

Partial one with leaflets consimilar, longer than the rays, often five.

Proper Perianth five-tooth'd, protruded.

COR. *Universal* not uniform, radiate. *Florets* of the disk abortive.

Proper one of the disk male, small: the *Petals* five, heart-inflexed, equal. *Proper one* of the ray hermaphrodite: the *Petals* five, heart-inflexed, unequal: the outmost, largest, two-cleft.

STAM. In all the flowers *Filaments* five, capillary. *Anthers* small.

PIST. *Germ* of the ray oblong, rugged, beneath. *Styles* two, awl'd. *Stigmas* two, expanding, obtuse.

PER. *Fruit* egg-oblong, with longitudinal strias, hispid with rigid bristles.

SEEDS two, oblong, convex on one side, armed according to the strias with awl'd points, flat on the other side.

OBS. In some species the universal Involucre is wanting. R.

332. ARTÉDIA. *

CAL. *Universal Umbel* expanding, flat, manifold. *Partial one* small, consimilar.

Universal Involucre about ten-leaved: the *leaflets* egg-oblong, three-bristled at the top, nearly the length of the umbel:

Partial one two-or three-leaved, bending outwardly: the *leaflets* linear, feather'd, longer than the umbellet.

COR. *Universal* not uniform, radiate. *Florets* of the disk abortive.

Proper one of the disk male: the *petals* five, heart-inflexed, erect.

Proper one of the ray hermaphrodite, with *petals* consimilar, but the outmost larger.

STAM. In all the flowers the *Filaments* five, capillary. *Anthers* simple, roundish.

PIST. *Germ* of the ray small, beneath. *Styles* two, reflected. *Stigmas* simple.

PER. none. *Fruit* roundish, compress'd, leaf-scaly on the margin, two-partible.

SEEDS two, oblong, sprinkled along the margin with roundish expanding scales.

333. DAUCUS. *Tournef.* 161. *Carrot.*

- CAL. *Universal Umbel* manifold, flowering flat, fruit-bearing, concave-converging. *Partial one* manifold, consimilar.
Universal Involucre many-leaved, the length of the umbel: the leaflets linear, feather-cleft. *Partial one* simpler, the length of the umbellet.
Proper Perianth scarcely manifest.
- COR. *Universal* not uniform, subradiate: *Florets* of the disk abortive. *Proper one* with five petals, heart-inflected, the exterior ones larger.
- STAM. *Filaments* five, capillary. *Anthers* simple.
- PIST. *Germ* beneath, small. *Styles* two-reflected. *Stigmas* obtuse.
- PER. none. *Fruit* egg'd, often every way hispid with rigid hairs, two-partible.
- SEEDS two, rather egg'd, on one side convex, hispid, flat on the other.

334. AMMI. * *Tournef.* 159. *Bishop's-weed.*

- CAL. *Universal Umbel* manifold, often of fifty rays. *Partial one* short, crowded.
Universal Involucre with leaflets numerous, linear, feather-cleft, acute, scarcely the length of the umbel: *Partial one* many-leaved: the leaflets linear, acute, simple, shorter than the umbellet.
Proper Perianth scarcely manifest.
- COR. *Universal* uniform. *Florets* all fertile.
Proper one with petals five, heart-inflected, of unequal size in the ray, nearly equal in the disk.
- STAM. *Filaments* five, capillary. *Anthers* roundish.
- PIST. *Germ* beneath. *Styles* two, reflected. *Stigmas* obtuse.
- PER. none. *Fruit* roundish, polish'd, striated, small, partible.
- SEEDS two, on one side convex, striated, flat on the other.
- Obs. A *copticum* (*coptic*) has a *murex'd* fruit. Lin. R.

335. BUNIIUM. † Bulbocastanum Tournef. 161.
Earth-nut. Pig-nut.

- CAL. *Universal Umbel* manifold, with fewer than twenty rays.
Partial one very short, crowded.
Universal Involucre many-leaved, linear, short. *Partial one*
 bristly, the length of the umbellet.
Proper Perianth scarcely manifest.
- COR. *Universal* uniform. *Florets* all fertile.
Proper one with petals five, heart-inflexed, equal.
- STAM. *Filaments* five, shorter than the corol, simple. *Anthems*
 simple.
- PIST. *Germ* oblong, beneath. *Styles* two, reflected. *Stigmas* obtuse.
- PER. none. *Fruit* egg'd, two-partible.
- SEEDS two, egg'd, convex on one side, flat on the other.

336. CONIUM. * Cicuta Tournef. 160. Hemlock.

- CAL. *Universal Umbel* with numerous expanding rays. *Partial one*
 consimilar.
Universal Involucre many-leaved, very short, unequal: *Par-*
tial one halved, three-leaved.
Proper Perianth scarcely perceptible.
- COR. *Universal* uniform.
Proper one with petals five, heart-inflexed, unequal.
- STAM. *Filaments* five, simple. *Anthems* roundish.
- PIST. *Germ* beneath. *Styles* two, reflected. *Stigmas* obtuse.
- PER. none. *Fruit* subglobular, five-friated, notch'd with ftrias,
 two-partible.
- SEEDS two, on one side convex, nearly hemispheric, friated, flat on
 the other.
- OBS. *The Florets are either hermaphrodite or male. R.*
C. rigens (rigid) has murex'd seeds. R.

337. SELINUM. * *Thyfellinum* T. *Milk Parsley*.

CAL. *Universal Umbel* manifold, flat-expanding: *Partial one* confimilar.

Universal Involucre many-leaved: the *leaflets* lance-linear, reflected: *Partial one* confimilar, expanding, the length of the corollet.

Proper Perianth scarcely discernible.

COR. *Universal* uniform: *Florets* all fertile.

Proper one with *Petals* five, hearted, equal.

STAM. *Filaments* five, capillary. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* two, reflected. *Stigmas* simple.

PER. none. *Fruit* flat-compress'd, oval-oblong, striated in the middle on both sides, two-partible.

SEEDS two, oval-oblong, flat on both sides, striated in the middle, with membranous sides.

OBS. *The Seeds vary in figure, the Involucres in the number of Leaves.*
R.

338. ATHAMANTA. * *Oreoselinum* *Tournef.* 169.
Spignel.

CAL. *Universal Umbel* manifold, expanding: *Partial one* less.

Universal Involucre many leaved, linear, rather shorter than the rays: *Partial one* linear, equal with the rays.

Proper Perianth obscure.

COR. *Universal* uniform: *Florets* all fertile.

Proper one with five-petals, endnick-inflected, rather unequal.

STAM. *Filaments* five, capillary, the length of the corol. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* two, distant. *Stigmas* obtuse.

PER. none. *Fruit* egg-oblong, striated, two-partible.

SEEDS two, egg'd, on one side convex, striated, flat on the other.

339. PEUCÉDANUM. † *Tournef.* 169. *Hog's-fennel.* *Sulphur-wort.*

- CAL. *Universal Umbel* manifold, very long, slender. *Partial one* expanding.
Universal Involucre many-leaved, linear, small, reflected:
Partial one less.
Proper Perianth five-tooth'd, very small.
- COR. *Universal* uniform: *Florets* of the disk abortive.
Proper one with *Petals* five, equal, oblong, incurved, intire.
- STAM. *Filaments* five, capillary. *Anthers* simple.
- PIST *Germ* oblong, beneath. *Styles* two, small. *Stigmas* obtuse.
- PER. none. *Fruit* egg'd, encompass'd with a wing striated on both sides, two-partible.
- SEEDS two, egg-oblong, compress'd, more convex on one side, mark'd with three elevated strias, girt on the margin with an intire broad membrane, end-nick'd at the top.

340. CRITHMUM. * *Tournef.* 169. *Sampshire.*

- CAL. *Universal Umbel* manifold, hemispheric: *Partial one* consimilar.
Universal Involucre many-leaved: the *leaflets* lanced, obtuse, reflected; *Partial one* lance-linear, the length of the umbellet.
Proper Perianth scarcely discernible.
- COR. *Universal* uniform: *Florets* all fertile.
Proper with *petals* five, egg'd, inflected, equal.
- STAM. *Filaments* five, simple, longer than the corol. *Anthers* roundish.
- PIST. *Germ* beneath. *Styles* two, reflected. *Stigmas* obtuse.
- PER. none. *Fruit* oval, compress'd, two-partible.
- SEEDS two, elliptic, flat-compress'd, striated on one side.

342. CÁCHRYS. * *Tournef.* 172.

- CAL. *Universal Umbel* manifold: *Partial one* consimilar.
Universal Involucre many-leaved, line-lanced: *Partial one* consimilar.
Proper Perianth scarcely discernible.
- COR. *Universal* uniform: *Florets* all fertile.
Proper one with Petals five, lanced, erectish, equal, flatish.
- STAM. *Filaments* five, simple, the length of the corol. *Anthers* simple.
- PIST. *Germ* top-shape, beneath. *Styles* two, simple, the length of the corol. *Stigmas* headed.
- PER. *Fruit* nearly egg'd, angular, obtuse, very large, cork-bark'd, two-partible.
- SEEDS two, very large, most convex on one side, flat on the other; spungy, pregnant with egg-oblong solitary Nucleuses.

343. FÉRULA. * *Tournef.* 170. *Fennel-Giant.*

- CAL. *Universal Umbel* manifold, globular: *Partial one* consimilar.
Universal Involucre falling off; *Partial one* many-leaved, linear, small.
Proper Perianth scarcely discernible.
- COR. *Universal* uniform: *Florets* all fertile.
Proper one with Petals five, oblong, straightish, subequal.
- STAM. *Filaments* five, the length of the corol. *Anthers* simple.
- PIST. *Germ* top-shape, beneath. *Styles* two, reflected. *Stigmas* obtuse.
- PER. *Fruit* oval, flat-compress'd, mark'd with three elevated lines on both sides, two-partible.
- SEEDS two, very large, elliptic, flat on both sides, mark'd with three distinct striae.
- OBS. *The Peduncle of the primary umbel* admits the opposite lateral peduncles.

344. LASERPITIUM. * *Tournef.* 172. *Laserwort.*

CAL. *Universal Umbel* very large, of from twenty to forty rays: *Partial one* with very numerous rays, flat.

Universal Involucre many-leaved, small: *Partial one* many-leaved, small.

Proper Perianth five-tooth'd, obscure.

COR. *Universal* uniform: *Florets* all fertile.

Proper one with petals five, endnick-inflected, subequal, expanding.

STAM. *Filaments* five, bristly, the length of the corol. *Anthers* simple.

PIST. *Germ* roundish, beneath. *Styles* two, thickish, pointed, distant. *Stigmas* obtuse, expanding.

PER. none. *Fruit* oblong, angled with eight longitudinal membranes, two-partible.

SEEDS two, very large, oblong, semicylindric, flat on one side, furnish'd on the other with membranes (four at once) on the back and margin.

OBS. L. *Sileris* has furrow'd seeds without membranelets. R.

345. HERACLÉUM. * *Sphondylium Tournef.* 170. *Cow-Parsnep.*

COR. *Universal Umbel* manifold, very large: *Partial one* flat.

Universal Involucre many-leav'd, falling: *Partial one* halved without: the leaflets from three to seven, line-lanced, the exterior ones longer.

Perianth obscure.

COR. *Universal* not uniform, radiate: *Florets* generally all fertile.

Proper one of the disk equal, five-petal'd: the *Petals* hook-inflected, end-nick'd.

Proper one of the ray unequal, five-petal'd: the exterior *Petals* larger and more two-cleft, oblong, hook'd.

STAM. *Filaments* five, longer than the corollets. *Anthers* small.

PIST. *Germ* nearly egg'd, beneath. *Styles* two, approximated, short. *Stigmas* simple.

PER. none. *Fruit* elliptic, compress'd, end-nick'd, striated in the middle on both sides, margined.

SEEDS two, egg'd, leaf-compress'd.

OBS. In some species of *Heracleum* the radiate female flowers are fertile; the male ones of the disk are abortive, being destitute of stigmas. *Spondylium* T. 1, 2, is every where hermaphrodite, and sometimes all the *Involucre* is wanting.

H. *angustifolium* (narrow-leaved) bears uniform flowers. R.

346. **LIGUSTICUM.** * *Tournef.* 171. *Cicutaria*
Tournef. 171. *Lovage.*

CAL. *Universal Umbel* manifold. *Partial one* manifold.

Universal Involucre membranous, seven-leaved, unequal.

Partial one scarcely four-leaved, membranous.

Proper Perianth five-tooth'd, obscure.

COR. *Universal* uniform. *Florets* all fertile.

Proper one with petals five, equal, involute, flat, intire, keel'd within.

STAM. *Filaments* five, capillary, shorter than the corol. *Anthers* simple.

PIST. *Germ* beneath. *Styles* two, approximated. *Stigmas* simple.

PER. none. *Fruit* oblong, angular, five-furrow'd, two-partible at both ends.

SEEDS two, oblong, smooth, mark'd with five elevated strias on one side, flat on the other.

OBS. *Male florets* are also observed. R.

347. **ANGÉLICA.** *

CAL. *Universal Umbel* manifold, roundish: the *Partial one* flowering exactly globular.

Universal Involucre three-or-five-leaved, small. *Partial one* small, eight-leaved.

Proper Perianth five-tooth'd, scarcely discernible.

COR. *Universal* uniform: *Florets* all fertile.

Partial one with five petals, equal, lanced, flatish, incurved, falling.

STAM. *Filaments* five, simple, longer than the corol. *Anthers* simple.

PIST. *Germ* beneath. *Styles* two, reflected. *Stigmas* obtuse.

PER. none. *Fruit* roundish, angular, solid, two-partible.

SEEDS two, egg'd on one side, flat, girt with a margin, on the other convex, plough'd with three lines.

348. SÍUM. * *Tournef.* 162. *Sisarum Tournef.* 163.
Water-Parsnep.

- CAL. *Universal Umbel* various in different plants. *Partial one* expanding, flat.
Universal Involucre many-leaved, reflected, shorter than the umbel: the *leaflets* lanced: *Partial one* many-leaved, linear, small.
Proper Perianth scarcely discernible.
- COR. *Universal* uniform: *Florets* all fertile.
Proper one with petals five, heart-inflected, equal.
- STAM. *Filaments* five, simple. *Anthers* simple.
- PIST. *Germ* very small, beneath. *Styles* two, reflected. *Stigmas* obtuse.
- PER. none. *Fruit* rather egg'd, striated, small, two-partible.
- SEEDS two, rather egg'd, on one side convex, striated, flat on the other.

349. SÍSON. * *False Stone Parsley.*

- CAL. *Universal Umbel* with fewer than six rays, unequal.
Partial one with fewer than ten rays, unequal.
Universal Involucre mostly four-leaved, unequal: *Partial one* consimilar.
Perianth scarcely manifest.
- COR. *Universal* uniform. *Florets* all fertile.
Proper one equal: with five lanced, inflected, flatish *Petals*.
- STAM. *Filaments* five, capillary, the length of the corol. *Anthers* simple.
- PIST. *Germ* nearly egg'd, beneath. *Styles* two, reflected. *Stigmas* obtuse.
- PER. none. *Fruit* egg'd, striated, two-partible.
- SEEDS two, egg'd, convex, striated on one side, flat on the other.

350. BUBON. * *Macedonian Parsley.*

CAL. *Universal Umbel* of about ten rays: the *middle ones* shorter.
Partial one from fifteen to twenty rays.

Universal Involucre five-leaved: the *leaflets* lance-pointed, spreading, equal, much shorter than the umbel, permanent.

Partial one with rather more leaflets, of the same form, the length of the umbellet.

Proper Perianth five-tooth'd, very small, permanent.

COR. *Universal* uniform: *Florets* all fertile.

Proper one with five lanced inflected petals.

STAM. *Filaments* five, simple, the length of the corollet. *Anthers* simple.

PIST. *Germ* egg'd, beneath. *Styles* two, bristly, permanent, scarcely the length of the corollet, bent-expanding. *Stigmas* obtuse.

PER. none. *Fruit* egg'd, striated, villous, two-partite, crowned.

SEEDS two, egg'd, flat on one side, convex, striated, villous on the other.

OBS. *Bubon Galbanum* is furnished with five-leaved *Involucres*. R.

351. CUMINUM. * *Tournef. Cumin.*

CAL. *Universal Umbel* and partial ones oftner four-parted.

Universal Involucre with as many leaflets, very long, most intire, some three-cleft. *Partial one* consimilar.

Proper Perianth scarcely manifest. *Florets* all fertile.

COR. *Universal* uniform.

Proper one with petals five, endnick-inflected, subunequal.

STAM. *Filaments* five, simple. *Anthers* simple.

PIST. *Germ* egg'd, larger than the flower, beneath. *Styles* two, very small. *Stigmas* simple.

PER. none. *Fruit* egg'd, striated.

SEEDS two, egg'd, on one side convex, striated, flat on the other.

352. OENAN-

352. OENANTHE. * (*Vine-flower*) *Tournef.* 166.
Water Dropwort.

CAL. *Universal Umbel* with fewer rays: *Partial one* crowded with more rays, very short, as often none.

Universal Involucre many-leaved, simple, shorter than the umbel: *Partial one* many-leaved, small.

Proper Perianth five-tooth'd, awl'd, permanent.

COR. *Universal* not uniform, radiate: *Florets* of the ray abortive. *Proper one of the disk* hermaphrodite, with petals five, heart-inflected, subequal.

Proper one of the ray male, with petals five, very large, unequal, two-lobed-inflected.

STAM. *Filaments* five, simple. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* two, awl'd, permanent. *Stigmas* obtuse.

PER. none. *Fruit* rather egg'd, crown'd with the perianth and pistil, two-partible.

SEEDS two, rather egg'd, on one side convex, striated, flat on the other, with a toothed top.

Obs. The *Perianth* in this genus is more manifest than in the rest.

353. PHELLANDRIUM. * *Tournef.* 161.

CAL. *Universal Umbel* manifold. *Partial one* confimilar.

Universal Involucre none. *Partial one* seven-leaved: the leaflets acute, the length of the umbellet.

Proper Perianth five-tooth'd, permanent.

COR. *Universal* nearly uniform. *Florets* all fertile, those of the disk less.

Proper one unequal with petals five, pointed, heart-inflected.

STAM. *Filaments* five, capillary, longer than the corol. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* two, awl'd, erect, permanent. *Stigmas* obtuse.

PER. none. *Fruit* egg'd, polish'd, crowned with the perianth and pistils, two-partible.

SEEDS two, egg'd, smooth.

554. CÍCÚTA. * *Water Hemlock.*

- CAL. *Universal Umbel* roundish: the rays very numerous, equal.
Partial one roundish, the rays very numerous, equal, bristly.
Universal Involucre none. *Partial one* many-leaved: the leaflets bristly, short.
Proper Perianth scarcely discernible.
- COR. *Universal* uniform. *Florets* all fertile.
Proper one with petals five, egg'd, inflected, subequal.
- STAM. *Filaments* five, capillary, longer than the corol. *Anthers* simple.
- PIST. *Germ* beneath. *Styles* two, thread-form, longer than the corol, permanent. *Stigmas* headed.
- PER. none. *Fruit* rather egg'd, furrow'd, two-partible.
- SEEDS two, rather egg'd on one side, convex, striated, flat on the other.

355. ÆTHÚSA. * *Meum Tournef.* 165. *Fool's-Parsley.*

- CAL. *Universal Umbel* expanding, the interior rays shorter by degrees, the inmost shortest. *Partial one* small, expanding.
Universal Involucre none. *Partial one* halved, placed outwards: the leaflets three or five, very long, linear, pendulous.
Proper Perianth scarcely discernible.
- COR. *Universal* subuniform. *Florets* all fertile.
Partial one with petals five, heart-inflected, unequal.
- STAM. *Filaments* five, simple. *Anthers* roundish.
- PIST. *Germ* beneath. *Styles* two, reflected, *Stigmas* obtuse.
- PER. none. *Fruit* egg-roundish, striated, two-partible.
- SEEDS two, roundish, striated, thence flat to a third part.

356. CORIANDRUM. * *Tournef.* 168. *Coriander.*

CAL. *Universal Umbel* with few rays : *Partial one* with more rays.

Universal Involucre scarcely one-leaved. *Partial one* three-leaved, halved, linear.

Proper Perianth five-tooth'd, protruded.

COR. *Universal* not uniform, radiate. *Florets* of the disk abortive.

Proper one of the disk hermaphrodite. *Petals* five, endnick-inflected, equal.

Proper one of the ray, hermaphrodite : the *Petals* five, heart-inflected, unequal, of which the outmost is largest, two-parted, but the nearest lateral ones have a very large division.

STAM. *Filaments* five, simple. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* two, distant. *Stigmas* of the ray, headed.

PER. none. *Fruit* spheric, two-partible.

SEEDS two, hemispheric, concave.

OBS. C. *testiculatum* (*twin*) is perhaps a plant of a different genus, since the *universal Involucre* is one-leaved, without a *partial one*, the *universal Corol* uniform, the *Fruit* twin.

357. SCANDIX. * *Tournef.* 173. *Shepherd's-needle.*

CAL. *Universal Umbel* long, with few rays : the *Partial one* more copious.

Universal Involucre none : *Partial one* five-leaved, the length of the umbellet.

Proper Perianth obscure.

COR. *Universal* not uniform : *Florets* of the disk abortive.

Proper one with petals five, endnick-inflected : the inmost less, the outmost large.

STAM. *Filaments* five, capillary. *Anthers* roundish.

PIST. *Germ* oblong, beneath. *Styles* two, awl'd, the length of the smallest petal, distant, permanent. *Stigmas* obtuse with radiate florets.

PER. none. *Fruit* very long, awl'd, two-partible.

SEEDS two, awl'd, on one side convex, furrow'd, flat on the other.

OBS. *The Florets of the disk* are abortive, in some.

Of *Pecten Veneris* (*Venus's comb*) the seeds are thread-form, concealing a nucleus at the base.

Of *Cerfolium Riv.* the seeds are egg-awl'd, striated.

The *Involucre* green, permanent, the *Florets* all hermaphrodite.

Of *S. odorata* (*odorous*) the seeds are angular, the *Involucre* falling off.

358. CHÆ-

358. CHÆROPHYLLUM. * Chærophýlli species
*Tournef. 166. Wild-
 Chervil.*

- CAL. *Universal Umbel* expanding: *Partial one* nearly equal in the number of rays.
Universal Involucre none. *Partial one* mostly five-leaved: the leaflets lanced, concave, reflected, nearly the length of the umbellet.
Proper Perianth obscure.
- COR. *Universal* subuniform. *Florets* of the disk abortive.
Proper one with petals five, heart-inflected: flatish, with an inflected dagger; the *exterior ones* a little larger.
- STAM. *Filaments* five, simple, the length of the umbellet. *Anthers* roundish.
- PIST. *Germ* beneath. *Styles* two, reflected. *Stigmas* obtuse.
- PER. none. *Fruit* oblong, pointed, polished, two-partible.
- SEEDS two, oblong, attenuated above, convex on one side, flat on the other.
- QBS. *The seeds of the disk are often abortive. The Fruit varies in figure.*

359. IMPERATÓRIA. * *Master-wort.*

- CAL. *Universal Umbel* flat-expanded: *Partial one* unequal.
Universal Involucre none: *Partial one* with one or two leaflets, very slender, nearly the length of the umbellet.
Proper Perianth obscure.
- COR. *Universal* uniform. *Florets* all fertile. *Proper one* with Petals five, endnick-inflected, subequal.
- STAM. *Filaments* five, capillary. *Anthers* roundish.
- PIST. *Germ* beneath. *Styles* two, reflected. *Stigmas* obtuse.
- PER. none. *Fruit* roundish, compress'd, gibbous in the middle, margined, two-partible.
- SEEDS two, egg'd, ploughed on one side with two furrows, girt with a broad margin.

360. SÉSELI. * Boerb. 1. p. 50. Hartwort of
Marjeilles.

CAL. *Universal Umbel* rigid: *Partial one* very short, manifold, globular.

Universal Involucre none: *Partial one* with one or two leaflets, linear, pointed, the length of the umbellet.

Perianth scarcely discernible.

COR. *Universal* uniform. *Florets* all fertile.

Proper one with petals five, heart-inflexed, flatish.

STAM. *Filaments* five, awl'd. *Anthers* simple.

PIST. *Germ* beneath. *Styles* two, distant. *Stigmas* obtuse.

PER. none. *Fruit* egg'd, small, striated, two-partible.

SEEDS two, egg'd, on one side convex, striated, flat on the other.

361. THÁPZIA. * Tournef. 171. Deadly carrot.

CAL. *Universal Umbel* large, of about twenty rays, of nearly equal length: *Partial one* with as many rays, nearly equal.

Universal Involucre none; *Partial* none.

Proper Perianth scarcely discernible.

COR. *Universal* uniform. *Florets* all fertile.

Proper one with five lanced incurved petals.

STAM *Filaments* five, capillary, the length of the corol. *Anthers* simple.

PIST. *Germ* oblong, beneath. *Styles* two, short. *Stigmas* obtuse.

PER. none. *Fruit* oblong, girt longitudinally with a membrane, two-partible.

SEEDS two, very large, oblong, convex, pointed at both ends, girt on both sides with a flat intire and large margin, which is end-nick'd at the top and bottom.

OBS. *T. trifoliata* (three-leaved) has the fruit of *Selinum Caruifolium* *Manieria*, but no *Involucres*. R.

362. PASTINACA. * *Tournef.* 170. *Parsnep.*CAL. *Universal Umbel* manifold, flat: *Partial one* manifold.*Universal Involucre* none: *Partial* none.*Proper Perianth* obscure.COR. *Universal uniform.* *Florets* all fertile.*Proper one* with petals five, lanced, involute, intire.STAM. *Filaments* five, capillary. *Anthers* roundish.PIST. *Germ* beneath. *Styles* two, reflected. *Stigmas* obtuse.PER. none. *Fruit* flat-compress'd, elliptic, two-partible.

SEEDS two, elliptic, girt by a margin, nearly flat on both sides.

363. SMYRNIUM. * *Tournef.* 168. *Alexanders.*CAL. *Universal Umbel* unequal, becoming larger daily.*Partial one* erect.*Universal Involucre* none: *Partial* none.*Proper Perianth* scarcely manifest.COR. *Universal uniform.* *Florets* of the disk abortive.*Proper one* with petals five, lanced, slightly inflected, keel'd.STAM. *Filaments* five, simple, the length of the corol. *Anthers* simple.PIST. *Germ* beneath. *Styles* two, simple. *Stigmas* two, simple.PER. none. *Fruit* oblong, striated, two-partible.

SEEDS two, moon'd, convex on one side, mark'd with three angles, flat on the other.

364. ANETHUM. * *Tournef.* 169. *Fœniculum*
Tournef. 164. *Dill.*CAL. *Universal Umbel* manifold: *Partial one* manifold.*Universal Involucre* none: *Partial* none.*Proper Perianth* obscure.COR. *Universal uniform.* *Florets* all fertile.*Proper one* with petals five, involute, intire, very short.STAM. *Filaments* five, capillary. *Anthers* roundish.PIST. *Germ* beneath. *Styles* two, approximated, obscure. *Stigmas* obtuse.PER. none. *Fruit* nearly egg'd, compress'd, striated, two-partible.

SEEDS two, rather egg'd, margined, on one side convex, striated, flat on the other.

OBS. *Of the Anethum of T. the seeds are surrounded with a membranous margin.**Of the Fœniculum of T. the seeds are destitute of a membranous margin.*

365. CÀ-

365. CĀRUM. * Carui Tournef. 160. Carraway.

CAL. *Universal Umbel* long, the rays ten, oftner unequal: *Partial* one crowded.

Universal Involucre often one-leaved: *Partial* none.

Perianth scarcely manifest.

COR. *Universal* uniform. *Florets* of the disk abortive: *Proper* one unequal: *Petals* five, unequal, obtuse, keel'd, endnick-inflected.

STAM. *Filaments* five, capillary, the length of the corol, falling. *Anthers* roundish, very small,

PIST. *Germ* beneath. *Styles* two, very small. *Stigmas* simple.

PER. none. *Fruit* egg-oblong, striated, two-partible.

SEED two, on one side convex, egg-oblong, striated, flat on the other.

OBS. *Some of the Florets in the disk are neuter.*

366. PIMPINĒLLA. * Tragofelium Tournef. 163.
Burnet Saxifrage.

CAL. *Universal Umbel* with many rays: *Partial* one with rays more numerous.

Universal Involucre none: *Partial* none.

Proper Perianth scarcely discernible.

COR. *Universal* subuniform. *Florets* all fertile.

Proper one with petals five, heart-inflected, subequal.

STAM. *Filaments* five, simple, longer than the corollet. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* two, very short. *Stigmas* subglobular.

PER. none. *Fruit* egg-oblong, two-partible.

SEEDS two, oblong, narrower towards the top, on one side convex, striated, flat on the other.

OBS. *P. dichotoma* (two-fork'd) has fruit subglobular.

P. dioica (two-house) (formerly dwarf Seseli) bears petals not end-nick'd. Of this species there are both male and hermaphrodite plants. R.

1378. CUSSONIA. S.

Universal Umbel four-ray'd : *Involucre* none.

CAL. *Perianth* the margin of the receptacle dilated, mostly five-tooth'd, permanent.

COR. *Petals* five, three-corner'd, acute, sessile.

STAM. *Filaments* five.

PIST. *Germ* beneath, top-shape, crown'd. *Styles* two, thread-form, erect, afterwards expanded, *Stigmas* simple.

PER. roundish, two-cell'd, or two-grain'd.

SEEDS solitary.

367. APIUM. * *Tournef.* 160. *Parsley.*

CAL. *Universal Umbel* with fewer rays : *Partial one* with more rays.

Universal Involucre small, with one or more leaflets. *Partial one* consimilar.

Proper Perianth obscure.

COR. *Universal* uniform : *Florets* nearly all fertile.

Proper one with roundish, inflected, equal petals.

STAM. *Filaments* five, simple. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* two, reflected. *Stigmas* obtuse.

PER. none. *Fruit* egg'd, striated, two-partible.

SEEDS two, egg'd, striated on one side, flat on the other.

OBS. A. *Petroselinum* is furnish'd with minute involucl's.

368. ÆGOPÓDIUM. * *Goat's foot.* *Gout weed.*

CAL. *Universal Umbel* manifold, convex : *Partial one* consimilar, flat.

Universal Involucre none. *Partial* none.

Proper Perianth scarcely discernible.

COR. *Universal* uniform : *Florets* all fertile.

Proper one with petals five, inverse-egg'd, concave, inflected at the top, equal.

STAM. *Filaments* five, simple, twice as long as the corol. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* two, simple, erect, the length of the corollet. *Stigmas* headed.

PER. none. *Fruit* egg-oblong, striated, two-partible.

SEEDS two, egg-oblong, on one side convex, striated, flat on the other.

III. THREE

III. THREE FEMALES.

(Trigynia.)

1379. SEMECARPUS. * S. Ink-tree.

- CAL. *Perianth* beneath, one-leaved, bell'd, half-fivecleft. *Divisions* hearted, acute.
- COR. *Petals* five, lanced, margined, obtuse, larger than the calyx.
- STAM. *Filaments* five, awl'd, shorter than the corol, inserted into the receptacle. *Anthers* oblong, small.
- PIST. *Germ* above, globe-depress'd. *Styles* three recurvate, incumbent on, and shorter than the germ. *Stigmas* club'd, retuse.
- PER. *Drupe* heart-oblong, rather compress'd, unequal, smooth. *Pulp* cellular, juicy.
- SEED a single *Nut*.

369. RHUS. * *Tournef.* 381. *Toxicodendron Tournef.* 381. *Cotinus Tournef.* 320. *Sumach.*

- CAL. *Perianth* five-parted, beneath, erect, permanent.
- COR. *Petals* five, egg'd, erect-expanding.
- STAM. *Filaments* five, very short. *Anthers* small, shorter than the corol.
- PIST. *Germ* above, roundish, the size of the corol. *Styles* scarcely any. *Stigmas* three, hearted, small.
- PER. *Berry* roundish, one-cell'd.
- SEED one, roundish, bony.
- OBS. *Rhus* of T. has a villous berry, with a globular nucleus. *Toxicodendron* has a Berry smooth, striated: with a compress'd furrow'd nucleus.
- R. *Vernix radicans*, (*rooting*) and *Toxicodendron* are two-house plants.

370. VIBURNUM. * *Tournef.* 377. *Vaill. A. G.* 1722. *Tinus Tournef.* 377. *Vaill. A. G.* 1722. *Opulus Tournef.* 376. *Vaill. A. G.* 1722. *Wayfaring tree.*

CAL. *Perianth* five-parted, above, very small, permanent.
 COR. one-petal'd, bell'd, five-cleft: the *divisions* obtuse, reflected.
 STAM. *Filaments* five, awl'd, the length of the corol. *Anthers* roundish.
 PIST. *Germ* beneath, roundish. *Style* none, in whose place there is a top-shape gland. *Stigmas* three.
 PER. *Berry* roundish, one-cell'd.
 SEED one, bony, roundish.

371. CASSINE. * *Maurocenia edit.* 1. *Hottentot Cherry.*

CAL. *Perianth* five-parted, beneath, very small, obtuse, permanent.
 COR. five-parted, expanding: the *divisions* nearly egg'd, obtuse, larger than the calyx.
 STAM. *Filaments* five, awl'd, expanding. *Anthers* simple.
 PIST. *Germ* above, conic. *Style* none. *Stigmas* three, reflected, obtuse.
 PER. *Berry* roundish, three-cell'd, navel'd with the stigmas.
 SEEDS solitary, nearly egg'd.
 OBS. The corol is five-petal'd, *Syst. Veg.* p. 243. R.

372. SAMBUCUS. * *Tournef.* 376. *Vaill. A. G.* 1722. *Elder.*

CAL. *Perianth* one-leaved, above, five-parted, very small, permanent.
 COR. one-petal'd, wheel-concave, five-cleft, obtuse: the *divisions* reflected.
 STAM. *Filaments* five, awl'd, the length of the corol. *Anthers* roundish.
 PIST. *Germ* beneath, egg'd, obtuse. *Style* none, in whose place there is a bellied gland. *Stigmas* three, obtuse.
 PER. *Berry* roundish, one-cell'd.
 SEEDS three, convex on one side, angular on the other.

373. SPATHÉLIA. * *Spathe Brown.*

CAL. *Perianth* five-leaved: the *leaflets* oblong, colour'd.

COR. *Petals* five, oblong, equal.

STAM. *Filaments* five, awl'd, ascending, marked with a tooth at the base. *Anthers* egg'd.

PIST. *Germ* egg'd, shorter than the *stamens*. *Style* none. *Stigmas* three, roundish.

PER. *Capsule* oblong, three-corner'd, three-cell'd.

SEEDS solitary, oblong, three-sided.

374. STAPHYLÉA. * *Staphylodendron Tournef.*
386. *Bladder-nut.*

CAL. *Perianth* five-parted, concave, roundish, colour'd, nearly the size of the corol.

COR. *Petals* five, oblong, erect, similar to the calyx.

Nectary from the receptacle of the fructification, in the bottom of the flower, concave, pitcher'd.

STAM. *Filaments* five, oblong, erect, the length of the calyx. *Anthers* simple.

PIST. *Germ* thickish, three-parted. *Styles* three, simple, a little longer than the calyx. *Stigmas* obtuse, contiguous.

PER. *Capsules* three, inflated, flaccid, longitudinally coalesced by a suture, with pointed tops gaping inwardly.

SEEDS two, bony, globular, with an oblique top and orbicular cell at the side of the top.

OBS. Of *S. pinnata* (*feather'd*) the three numbers of *Pistil* and *Pericarp* come forth but two.

375. TÁMARIX. * *Tamariscus Tournef. Tamarisk.*

CAL. *Perianth* five-parted, obtuse, erect, permanent, shorter by half than the corol.

COR. *Petals* five, egg'd, concave, obtuse, expanding.

STAM. *Filaments* five, capillary. *Anthers* roundish.

PIST. *Germ* pointed. *Style* none. *Stigmas* three, oblong, revolute, feathery.

PER. *Capsule* oblong, pointed, three-sided, longer than the calyx, one-cell'd, three-valved.

SEEDS most numerous, very small, pappus'd.

OBS. *T. germanica* (*german*) has ten *stamens*, of which the alternate exterior ones are shorter; all conjoined at the base.

1299. XYLOPHYLLA. † *Wooden-leaf*. Phyllanthus *Brown jam*. 188.CAL. *Perianth* five-parted, colour'd: the *divisions* egg'd.COR. none (*unless the calyx be so named*.)STAM. *Filaments* five, very short. *Anthers* shorter than the flower.PIST. *Germ* roundish. *Styles* three, short; *Stigmas* lacerated.PER. *Capsule* roundish, three-cell'd.

SEEDS two.

OBS. *Is there in these a separation of sex? I have not seen the flowers myself.*376. TURNERA. * *Plum*. 12.CAL. *Perianth* one-leaved, funnel-form, deciduous. *Tube* oblong, erect, cylinder-angled. *Border* erect, five-parted; the *divisions* lanced, the length of the tube.COR. *Petals* five, inverse-hearted, pointed, flat, erect-expanding; the *claws* narrow, inserted into the tube of the calyx.STAM. *Filaments* five, awl'd, shorter than the corol, inserted into the tube of the calyx. *Anthers* pointed, erect.PIST. *Germ* conic. *Styles* three, thread-form, the length of the stamens. *Stigmas* many-cleft, capillary.PER. *Capsule* egg'd, one-cell'd, three-valved. *Receptacles* longitudinally annexed to the valves, linear.

SEEDS very numerous, oblong, obtuse.

377. TELÉPHIUM. * *Tournef*. 128. *Orpin*.CAL. *Perianth* five-leaved: the *leaflets* oblong, obtuse, concave, keel'd, the length of the corol, permanent.COR. *Petals* five, oblong, obtuse, narrow below, erect, inserted into the receptacle.STAM. *Filaments* five, awl'd, shorter than the corol. *Anthers* incumbent.PIST. *Germ* three-sided, acute. *Style* none. *Stigmas* three, acute, expanding.PER. *Capsule* short, three-sided, three-valved, one-cell'd. *Receptacle* free, shorter by half than the capsule.

SEEDS very numerous, roundish.

378. COR-

378. CORRIGIOLA. * Polygonifolia Dill. gen. 3.

CAL. *Perianth* five-leaved: the *leaflets* egg'd, concave, expanding, the size of the corol, membranous on the margin, permanent.

COR. *Petals* five, egg'd, expanding, scarcely larger than the calyx.

STAM. *Filaments* five, awl'd, small. *Anthers* simple.

PIST. *Germ* egg'd, three-corner'd. *Style* none. *Stigmas* three, obtuse.

PER. none. *Calyx* converging.

SEED one, egg'd, three-sided.

379. PHARNACEUM. *

CAL. *Perianth* five-leaved: the *leaflets* rather egg'd, concave, expanding, equal, permanent, colour'd within, with a fine margin.

COR. none; hence the fine margin of the calyx, and the calyx internally colour'd.

STAM. *Filaments* five, awl'd, the length of the calyx. *Anthers* two-cleft at the base.

PIST. *Germ* egg'd, three-corner'd. *Styles* three, thread-form, the length of the stamens. *Stigmas* obtuse.

PER. *Capsule* egg'd, obscurely three-corner'd, cover'd, three-cell'd, three-valved.

SEEDS numerous, glossy, orbicular, depress'd, surrounded with an acute margin.

OBS. Of P. Mollugo the parts of the fructification differ. R.

380. ALSINE. * Chickweed.

CAL. *Perianth* five-leaved: the *leaflets* concave, oblong, pointed.

COR. *Petals* five, equal, longer than the calyx.

STAM. *Filaments* five, capillary. *Anthers* roundish.

PIST. *Germ* rather egg'd. *Styles* three, thread-form. *Stigmas* obtuse.

PER. *Capsule* egg'd, one-cell'd, three-valved, cover'd with the calyx.

SEEDS very numerous, roundish.

381. DRYPIS. † *Mich.* 23. *Mygind.* *Jacq. vind.*
304.

CAL. *Perianth* one-leaved, tubular, (the *mouth* five-tooth'd) permanent.

COR. *Petals* five. *Claws* the length of the calyx, narrow. *Border* flat: with two-parted folds: the *divisions* linear, obtuse. *The throat* crown'd with the two toothlets of each petal.

STAM. *Filaments* five, the length of the corol. *Anthers* simple, oblong, incumbent.

PIST. *Germ* inverse-egg'd, compress'd. *Styles* three, simple, spreading. *Stigmas* simple.

PER. *Capsule* roundish, cover'd with the calyx, one-cell'd, small, circumcised.

SEED one, kidney-form, glossy.

OBS. Of *D. spinosa* (thorny) the calyx is half-five-cleft. R.

382. BASÉLLA. * *Malabar Nightshade.*

CAL. none.

COR. seven-cleft, pitcher'd: (the two exterior *divisions* broader, one within the rest,) converging above, fleshy at the base.

STAM. *Filaments* five, awl'd, equal, adjoined to the corol, and rather shorter than it. *Anthers* roundish.

PIST. *Germ* subglobular. *Styles* three, thread-form, the length of the stamens. *Stigmas* oblong, on one side of the tops of the styles.

PER. *Corol* permanent, closed, fleshy, counterfeiting the berry.

SEED one, roundish.

383. SARÓTHRA. † *False Gentian.*

CAL. *Perianth* one-leaved, five-parted, erect, permanent: *divisions* linear, acute.

COR. *Petals* five (oftner,) lance-linear, obtuse, spreading, rather longer than the calyx, deciduous.

STAM. *Filaments* five, thread-form, the length of the corol. *Anthers* roundish.

PIST. *Germ* egg'd. *Styles* three, thread-form, the length of the germ. *Stigmas* simple.

PER. *Capsule* oblong, acute, one-cell'd, three-valved, colour'd.

SEEDS most numerous, kidney-form, very small.

IV. FOUR FEMALES.

(Tetragýnia.)

384. PARNÁSSIA. * *Tournef. Grass of Parnassus.*

CAL. *Perianth* five-parted: the *divisions* oblong, acute, expanding, permanent.

COR. *Petals* five, roundish, end-nick'd, striated, concave, expanding.

Nectaries five: each with an hearted concave scale, furnished with 13 styles along its margin gradually higher, on every one of which sits a globe.

STAM. *Filaments* five, awl'd, the length of the corol. *Anthers* depress'd, incumbent.

PIST. *Germ* egg'd, large. *Style* none, in whose place there is a perforation. *Stigmas* four, obtuse, permanent, greater in the fruit.

PER. *Capsule* egg-fourcorner'd, one-cell'd, four-valved. *Receptacles* fourfold, growing to the valvelets.

SEEDS very numerous, oblong.

OBS. The essential character is most easily collected from the nectary.

385. EVÓLVULUS. *

CAL. *Perianth* five-leaved: the *leaflets* lanced, acute, permanent.

COR. one-petal'd, wheel'd, five-cleft.

STAM. *Filaments* five, capillary, expanding, almost the length of the corol. *Anthers* oblongish.

PIST. *Germ* subglobular. *Styles* four, capillary, diverging, the length of the stamens. *Stigmas* simple.

PER. *Capsule* subglobular, four-cell'd, four-valved.

OBS. It is allied to the *Convolvulus*.

E. *Linifolius* (flax-leaved) afforded the character.

V. FIVE

V. FIVE FEMALES.

(*Pentagynia.*)386. ARÁLIA. * *Tournef.* 154. *Berry-bearing*
*Angelica.*CAL. *Involucre* of the globular umbellet very small. *Perianth* five-tooth'd, very small, above.COR. *Petals* five, egg'd, acute, sessile, reflected.STAM. *Filaments* five, awl'd, the length of the corol. *Anthers* roundish.PIST. *Germ* roundish, beneath. *Styles* five, very short, permanent. *Stigmas* simple.PER. *Berry* roundish, striated, crowned, five-cell'd.

SEEDS solitary, hard, oblong.

1380. COMMERSÓNIA. * *Forst. gen. n. 22. S.*CAL. *Perianth* one-leaved, five-parted, corol-bearing: the *divisions* egg'd, acute.COR. five-petal'd. *Petals* linear, dilated at the base on both sides with an inflected lobe, expanding.*Nectary* five-parted, within the stamens: the *divisions* lanced, erect, shorter than the petals, with five threadform *Corpuscles* emitted from the interstices of the nectary.STAM. *Filaments* five, very short, at the bases of the petals. *Anthers* roundish, twin.PIST. *Germ* globular, villous; with five *wreaths*. *Styles* five, thread-form, approximated, short. *Stigmas* globular.PER. *Capsule* globular, five-cell'd, hedgehog'd: the *bristles* long, hairy. The *cells* two-seeded.

SEEDS egg'd.

388. STA-

388. STÁTICE. * *Tournef.* 177. *Limonium Tournef.* 177. *Thrift.*

- CAL. *Common Perianth* of different structure in different plants.
Proper Perianth one-leaved, funnel-form: the *Tube* narrow: the *Border* intire, plaited, parch'd.
- COR. funnel form. *Petals* five, narrow below, broader above, obtuse, expanding.
- STAM. *Filaments* five, awl'd, shorter than the corol, inserted into the claws of the corol. *Anthers* incumbent.
- PIST. *Germ* very minute. *Styles* five, thread-form, distant. *Stigmas* acute.
- PER. none *Proper Calyx* contracted in the neck, expanded in the *Border*, cherishing the seed.
- SEED one, very small, roundish, crown'd with the proper calyx.
- OBS. *Statice* of the *Anthers* with a triple common calyx has a roundish flower.
Limonium of the *Anthers* with an imbricated common calyx exhibits the *florets* in an oblong series.
S. m. nopenetala (one-petal'd) ought not to be of a separate genus, since in the five-petal'd ones the *filaments* of the *stamens* are inserted into the very claws of the *petals*.

389. LÍNUM. * *Tournef.* 176. *Radiola Dill. gen.* 7. *Chamælinum Vaill. B. P. 4. f. 6.*
Linocarpon. Mich. 21. Flax.

- CAL. *Perianth* five-leaved, lanced, erect, small, permanent.
- COR. funnel-form. *Petals* five, oblong, gradually broader upwards, obtuse, more expanding, large.
- STAM. *Filaments* five, awl'd, erect, the length of the calyx, (besides five alternating rudiments.) *Anthers* simple, arrow'd.
- PIST. *Germ* egg'd. *Styles* five, thread-form, erect, the length of the *stamens*. *Stigmas* simple, reflected.
- PER. *Capsule* globular, rudely five-corner'd, ten-cell'd, five-valved.
- SEEDS solitary, egg-flattish, pointed, smooth.
- OBS. *One fifth part* of the number in *Rodiola* is wanting.

390. ALDROVANDA. * *Mont. A. Bonon.*CAL. *Perianth* five-parted, erect, equal, permanent.COR. *Petals* five, oblong, pointed, the length of the calyx, permanent.STAM. *Filaments* five, the length of the flower. *Anthems* simple.PIST. *Germ* globular. *Styles* five, very short, *Stigmas* obtuse.PER. *Capsule* globular, obscurely five-corner'd, five-valved, one-cell'd.

SEEDS ten, oblongish, affixed to the internal wall of the pericarp.

391. DRÓSERÁ. * *Ros Solis Tournef. 127.*
*Sun-dew.*CAL. *Perianth* one-leaved, five-cleft, acute, erect, permanent.COR. funnel-form. *Petals* five, rather egg'd, obtuse, rather larger than the calyx.STAM. *Filaments* five, awl'd, the length of the calyx. *Anthems* small.PIST. *Germ* roundish. *Styles* five, simple, the length of the stamens. *Stigmas* simple.PER. *Capsule* rather egg'd, one-cell'd, five-valved at top.

SEEDS most numerous, very small, rather egg'd.

OBS. *D. lusitanica* (portugal) has ten stamens. R.1340. GISÉCKIA. * *Koeireutera, Murray. Comment, nov. Goett. tom. 3. t. 3. f. 1.*CAL. *Perianth* five-leaved: the leaflets egg'd, concave, obtuse, parch'd on the margin, permanent.

COR. none.

STAM. *Filaments* five, awl'd, egg'd at the base, short. *Anthems* roundish.PIST. *Germ* above, roundish, retuse, five-parted. *Styles* five, short, recurvate. *Stigmas* obtuse.PER. *Capsules* five, roundish, rather compressed, rugged, obtuse, approximated.

SEEDS solitary, egg'd, smooth.

392. CRÁS-

392. CRASSULA. * (*Thickishness*). Dill. *elth.* 96.
Less Orpine.

CAL. *Perianth* five-leaved: the *leaflets* lanced, concave-channel'd, erect, acute, converging to a tube, permanent.

COR. *Petals* five, the *Claws* long, linear, straight, converging, connected at the base to the bracts of the border, egg'd, reflex-expanding.

Nectaries five: each with a very small scale, end-nick'd, annexed externally to the base of the germ.

STAM. *Filaments* five, awl'd, the length of the tube, inserted into the claws of the corol. *Anthers* simple.

PIST. *Germ* five, oblong, pointed, ending in awl'd styles, the length of the stamens. *Stigmas* obtuse.

PER. *Capsules* five, oblong, pointed, straight, compress'd; longitudinally gaping inwards.

SEEDS many, small.

OBS. *It is allied to Sedum, but differs in the number of stamens. The Calyx is one-leaved, and the Corol one-petal'd in some. R.*

1255. MAHERNIA.

CAL. *Perianth* one-leaved, five-cleft, bell'd: (the teeth awl'd, longer) permanent.

COR. *Petals* five, hearted, oblong, expanding, twice as long as the calyx.

Nectaries five, inverse-hearted, pedicel'd, surrounding the germ, shorter than the calyx.

STAM. *Filaments* five, capillary, sitting on the nectary, shorter than the calyx. *Anthers* oblong, pointed, erect.

PIST. *Germ* subpedicel'd, inverse-egg'd, five-angled. *Styles* five, bristly, erect, the length of the petals. *Stigmas* simple.

PER. *Capsule* egg'd, five-cell'd, five-valved.

SEEDS few, kidney-form.

OBS. *It has the greatest affinity to Hermmania, but their nectaries cannot be combined in the same character.*

393. SIBBALDIA. * *Fl. Lapp.*

CAL. *Perianth* one-leaved, half-tencleft, erect at the base: the *divisions* semilanced, equal, expanding, the alternate ones narrower, permanent.

COR. *Petals* five, egg'd, inserted into the calyx.

STAM. *Filaments* five, capillary, shorter than the corol, inserted into the calyx. *Anthers* small, obtuse.

PIST. *Germes* five, egg'd, very short. *Styles* from the middle of the side of the germes, the length of the stamens. *Stigmas* headed.

PER. none. *Calyx* converging, concealing the seeds in its bosom.

SEEDS five, oblongish.

OBS. *It sometimes becomes luxuriant, the pistils being doubled, on one and the same plant with the fives.*

VI. MANY FEMALES.

(*Polygynia.*)

394. MYOSURUS. * *Myosuros. Dill. gen. 4.*
Moufe-tail.

CAL. *Perianth* five-leaved: the *leaflets* semilanced, obtuse, reflected, annexed above the base, colour'd, deciduous.

COR. *Petals* five, shorter than the calyx, most minute, tubular at the base, obliquely open inwards.

STAM. *Filaments* five, (or more) the length of the calyx. *Anthers* oblong, erect.

PIST. *Germes* numerous, sitting on the receptacle in a cone-oblong form. *Styles* none. *Stigmas* simple.

PER. none. *Receptacle* very long, style-form, cover'd with seeds imbricately disposed.

SEEDS numerous, oblong, pointed.

OBS. The number of the Stamens *varies greatly in this genus.*

Myosurus has the greatest affinity with Ranunculus.

The Author now thinks the Petals are Nectaries; and describes them as tongu'd, petal-form. vid. Syst. Veg. R.

CLASS VI.

C L A S S VI.

S I X M A L E S.

(Hexándria.)

I. O N E F E M A L E.

(Monogýnia.)

395	Bromélia.	413	Gloriófa.
396	Tillándfia.	414	Erythrónium.
397	Burmánia.	415	Túlipa.
398	Tradescántia.	416	Albúca.
399	Pontedéria.	417	Hypóxis.
400	Hæmáanthus.	1383	Ehrháarta.
401	Galáanthus.	418	Ornithógalum.
402	Leucójum.	419	Scílla.
1300	Tulbágia.	420	Cyanélla.
403	Narcíffus.	421	Asphódelus.
404	Pancrátium.	422	Anthéricum.
1381	Maffónia.	423	Léontice.
405	Crinum.		Póllia.
406	Amaryllis.	424	Aspáragus.
407	Bulbocódium.	1256	Dracæna.
408	Aphyllàntes.	425	Convallária.
409	Allium.	426	Poliánthes.
410	Lílium.	427	Hyacínthus.
411	Fritillária.	1382	Phórmium.
412	Uvulária.	428	Alétris.

- 429 Yúcca.
 430 Aloe.
 431 Agáve.
 432 Alstroméria.
 590 Gethýllis.
 433 Hemerocállis.
 434 Ácorus.
 Lindéra.
 435 Oróntium.
 436 Cálamus.
 437 Júncus.
 439 Richàrdia.
 438 Áchras.
 441 Prínos.
 1384 Duróia.
 440 Burféra.
 442 Bérberis.
 1302 Capúra.
 443 Loráanthus.
 444 Híllia.
 1301 Canarína.
 Mandína.
 445 Frankénia.
 446 Péplis.

II. TWO FEMALES.

(Digýnia.)

- 1386 Gáhnia.
 448 Orýza.

- 1385 Fálkia.
 449 Atrapháxis.

III. THREE FEMALES.

(Trigýnia.)

- 451 Rúmex.
 450 Flagellária.
 452 Scheuchzénia.
 453 Triglóchin.
 454 Melánthium.
 455 Medéola.
 456 Tríllium.
 357 Cólchicum.
 458 Helónias.

IV. FOUR FEMALES.

(Tetragýnia.)

- 459 Petivéria.

V. MANY FEMALES.

(Polygýnia.)

- 460 Alífsma.

SIX MALES.

(*Hexandria.*)

I. ONE FEMALE.

(*Monogynia.*)

395. BROMÉLIA. * *Plum.* 8. *Pinguin.* *Dill. elth.*
240. *Ananas Tournef.* 426,
427, 428. *Karatas Plum.* 33.
Pine-apple.

CAL. *Perianth* three-corner'd, small, above, permanent: with three egg'd divisions.

COR. *Petals* three, lance-narrow, erect, longer than the calyx.

Nectary growing to each petal above the base, converging.

STAM. *Filaments* six, awl'd, shorter than the corol, inserted into the receptacle. *Anthers* erect, arrow'd.

PIST. *Germ* beneath. *Style* simple, thread-form, the length of the stamens. *Stigma* obtuse, three-cleft.

PER. *Berry* roundish, navel'd.

SEEDS numerous, incumbent, oblongish, obtuse.

OBS. *The Berry is three-cell'd.* *Lin. Syst. Veg.* R.

B. *Pinguin* has a one-cell'd berry, and few seeds. *Jacq. amer.*

p. 91. R.

396. TILLÁNDZIA. † *Caraguata Plum.* 33.
Renealmia Plum. 38.

CAL. *Perianth* one-leaved, three-cleft, oblong, erect, permanent: the divisions lance-oblong, pointed.

COR. tubular, one-petal'd. *Tube* long, bellied. *Border* three-cleft, obtuse, erect, small.

STAM. *Filaments* six, the length of the tube of the corol. *Anthers* acute, in the neck of the corol, incumbent,

PIST. *Germ* oblong, pointed at both ends. *Style* thread-form, the length of the stamens. *Stigma* three-cleft, obtuse.

PER. *Capsule* long, obtusely three-corner'd, pointed, mostly one-cell'd, three-valved.

SEEDS many, affixed to a very long capillary pappus.

Caraguata Pl. has the corol three-cleft, 1, 2, 3, 8.

Renealmia Pl. has the Corol three-parted, 4, 5, 6, 7.

397. BURMANNIA. †

CAL. *Perianth* long, one-leaved, prismatic, colour'd, with three longitudinal membranous angles: the *mouth* three-cleft, small.

COR. *Petals* three, egg'd, oblong, very small, placed in the mouth of the calyx, most minute.

STAM. *Filaments* six, very short. *Anthers* in the mouth of the Calyx, very short, every where two together, separated by a reflected dagger.

PIST. *Germ* cylindric, shorter by half than the calyx. *Style* thread-form, the length of the corol. *Stigmas* three, obtuse, concave.

PER. *Capsule* cover'd with the calyx, cylinder-threecorner'd, three-cell'd, three-valved, gaping at the angles.

SEEDS numerous, very small.

398. TRADESCANTIA. * *Ephemerum* Tournef.
193. *Virginian Spiderwort*.

CAL. *Perianth* three-leaved: the *leaflets* egg'd, concave, expanding, permanent.

COR. *Petals* three, orbicular, flat, most expanding, large, equal.

STAM. *Filaments* six, thread-form, the length of the calyx, erect, villous: with jointed hairs. *Anthers* kidney-form.

PIST. *Germ* egg'd, obtusely three-corner'd. *Style* thread-form, the length of the stamens. *Stigma* three-corner'd, tubular.

PER. *Capsule* egg'd, cover'd with the calyx, three-cell'd, three-valved.

SEEDS few, angular.

OBS. *The figure of the style varies.* R.

399. PON-

399. PONTEDÉRIA. † *Michelia*. *Houft. A. A.*

CAL. Common *Spathe* oblong, gaping on the side.

COR. one-petal'd, two-parted, tubular. *Upper lip* straight, three-parted, outwardly equal. *Lower lip* reflected, three-parted: with equal *divisions*.

STAM. *Filaments* six, inserted into the corol, of which three are awl'd, longer, in the mouth of the tube of the corol; the remaining three inserted into the base of the same tube. *Anthers* erect, oblong.

PIST. *Germ* oblong, beneath. *Style* simple, declining. *Stigma* thickish.

PER. *Capsule* fleshy, conic, with a broad, inflected top, three-cell'd, triangular, three-furrow'd.

SEEDS roundish, very numerous.

OBS. *P. vaginalis* (*sheath'd*) has six petals, the style club'd and germ above. R.

P. hastata (*halberted*) has also the germ above, and the corol six parted, equal. R.

400. HÆMANTHUS. * *Tournesf. 433. Dracunculoides Boerb. 11. 226. Blood-flower.*

CAL. *Involucre* six-leaved, very large, umbel-bearing: the erect leaflets oblong, permanent.

COR. one-petal'd, erect, six-parted: the *divisions* erect, linear; the tube very short, angular.

STAM. *Filaments* six, awl'd, inserted into the tube of the corol, longer than the corol. *Anthers* incumbent, oblong.

PIST. *Germ* beneath. *Style* simple, the length of the stamens. *Stigma* simple.

PER. *Berry* roundish, three-cell'd.

SEEDS solitary, three-sided.

401. GALÁNTHUS. * *Snow-drop*.

CAL. *Spathe* oblong, obtuse, compress'd, gaping on the flat side, withering.

COR. *Petals* three, oblong, obtuse, concave, loose, spreading, equal. *Nectary* cylindric, three-leaved, shorter by half than the petals: the *leaflets* petal-like, parallel, end-nick'd, obtuse.

STAM. *Filaments* six, capillary, very short. *Anthers* oblong, pointed, ending in a bristle, converging.

PIST. *Germ* globular, beneath. *Style* thread-form, longer than the *stamens*. *Stigma* simple.

PER. *Capsule* globe-oval, obtusely three-corner'd, three-cell'd, three-valved.

SEEDS many, globular.

402. LEUCÓJUM. * *Narcisso-Leucojum Tournef.*
208. A. C. D. E. F. *Greater Snow-drop.*

CAL. *Spathe* oblong, obtuse, compress'd, gaping on the flat side, withering.

COR. bellform-expanding. *Petals* six, egg'd, flat, coalesced at the base: with thickish straighter tops.

STAM. *Filaments* six, bristly, very short. *Anthers* oblong, obtuse, quadrangular, erect, distant.

PIST. *Germ* roundish, beneath. *Style* club'd, obtuse. *Stigma* bristly, erect, acute, longer than the *stamens*.

PER. *Capsule* top-shape, three-cell'd, three-valved.

SEEDS many, roundish.

Obs. The autumnal L. has a thread-form style. Lin. R.

1300. TULBAGIA. †

CAL. *Spathe* two-valved, oblong, membranous: the *flowers* peduncled.

COR. *Petals* six, lanceol; the length of the nectary, sitting on the tube: three in the middle; three behind the border.

Nectary one-petal'd, cylindric: the Border six-parted, awl'd, spreading.

STAM. *Filaments* six, very short: three in the throat: three within the tube. *Anthers* oblongish, acute.

PIST. *Germ* above, egg'd. *Style* cylindric, short. *Stigma* top-shape, hollow.

PER. *Capsule* egg'd, nearly three-corner'd, three-cell'd.

SEEDS few.

OBS. *It cannot be associated with the Narcissus, the germ being above. It is more like the Hyacinth in the corol.*

403. NARCISSUS. * *Tournef.* 185.

CAL. *Spathe* oblong, obtuse, compress'd, gaping on the flat side, withering.

COR. *Petals* six, egg'd, pointed, flat, equal, inserted into the tube of the nectary, externally above the base.

Nectary one-leaved, cylinder-funnelform, colour'd on the border.

STAM. *Filaments* six, awl'd, affixed to the tube of the nectary, shorter than the nectary. *Anthers* oblongish.

PIST. *Germ* roundish, obtusely three-sided, beneath. *Style* thread-form, longer than the stamens. *Stigma* three-cleft, concave, obtuse.

PER. *Capsule* roundish, obtusely three-corner'd, three-cell'd, three-valved.

SEEDS many, globular, appendaged.

404. PANCRATIUM. * *Dill. elthb.* 221. f. 289.
Sea-Daffodil.

CAL. *Spathe* oblong, obtuse, compress'd, gaping on the flat side, withering.

COR. *Petals* six, lanced, flat, inserted into the tube of the nectary externally above the base.

Nectary one-leaved, cylinder-funnelform, colour'd above: the mouth expanding, twelve-cleft.

STAM. *Filaments* six, awl'd, inserted into the tops of the nectary, and longer than them. *Anthers* oblong, incumbent.

PIST. *Germ* obtusely three-corner'd, beneath. *Style* thread-form, longer than the stamens. *Stigma* obtuse.

PER. *Capsule* roundish, three-sided, three-cell'd, three-valved.

SEEDS many, globular.

1381. MASSONIA. * *Thunb.* S.

CAL. none.

COR. six-petal'd, the *Petals* placed outwardly upon the nectary, lanced, expanding, erect.

Nectary beneath, cylindric, six-striated, membranous, six-tooth'd.

STAM *Filaments* six, inserted into the Teeth of the nectary, thread-form, incurvate. *Anthers* incumbent, oblong.

PIST. *Germ* above, (in respect of the nectary.) *Style* awl'd, declining, the length of the stamens. *Stigma* simple, acute.

PER. *Capsule* three-sided, obtuse, smooth, three-valved, three-cell'd, gaping at the angles longitudinally.

SEEDS very numerous, globular, smooth.

405. CRINUM. * *Asphodel-Lily.*

CAL. *Involucre* spathe-form, two-leaved, oblong, umbellet-bearing, reflected after gaping.

COR. one-petal'd, funnel-form. *Tube* oblong, cylindric, inflected. *Border* six-parted, the *divisions* lance-linear, obtuse, concave, reflected, of which the three *alternate ones* are distinguished by an hook'd appendage.

STAM. *Filaments* six, awl'd, from the base of the border, the length of the border, converging. *Anthers* oblong, linear, ascending, incumbent.

PIST. *Germ* beneath. *Style* thread-form, the length of the flower. *Stigma* three-cleft, very small.

PER. *Capsule* rather egg'd, three-cell'd.

SEEDS many.

406. AMARYLLIS. * *Lilio-Narcissus Tournef.*
207. *Lily-Daffodil.*

CAL. *Spathe* oblong, obtuse, compress'd, end-nick'd, gaping on the flat side withering.

COR. *Petals* six, lanced.

Nectary with six scales on the outside of the base of the filaments, very short.

STAM. *Filaments* six, awl'd. *Anthers* oblong, incumbent, ascending.

PIST. *Germ* roundish, furrow'd, beneath. *Style* thread-form, nearly the length and situation of the stamens. *Stigma* three-cleft, slender.

PER. *Capsule* rather egg'd, three-cell'd, three-valved.

SEEDS many.

OBS. *The inflection of the Petals, Stamens and Pistil is very different in this genus.*

407. BULBOCÓDIUM. * (*Wool-bulb.*)

CAL. none.

COR. six-petal'd, funnel-form. *Claws* very long, linear. *Throat* connecting the petals. *Border* erect: the petals lanced, concave.

STAM. *Filaments* six, awl'd, inserted into the claws of the petals. *Anthers* incumbent.

PIST. *Germ* egg-awl'd, obtusely three-corner'd, above. *Style* thread-form, the length of the stamens. *Stigmas* three, oblong, erect, channel'd.

PER. *Capsule* triangular, pointed, with obscure angles, three-cell'd.

SEEDS numerous.

408. APHYL-

408. APHYLLANTHES. † *Tournef.* 430. *Leafless-flower.*

- CAL. *Glumes* one-valved, lanced, many, imbricated.
 COR. *Petals* six, egg'd, expanding in the border. *Claws* slender, erect, converging into a tube.
 STAM. *Filaments* six, bristly, shorter than the corol, inserted into the throat of the corol. *Anthems* oblong.
 PIST. *Germ* above, three-corner'd, top-shape. *Style* thread-form, the length of the stamens. *Stigmas* three, oblong.
 PER. *Capsule* top-shape, triangular, three-cell'd.
 SEEDS egg'd.
 OBS. *It differs from Juncus, (Rush) in the corol only.*

409. ALLIUM. * *Tournef.* 206. *Hall.* *Cepa Tournef.* 205. *Porrum Tournef.* 104. *Scorodoprasum. Mich.* 24. *Moly Boerb.* 2. p. 146. *Garlic.*

- CAL. *Spathe* common, roundish, withering, many-flowered.
 COR. *Petals* six, oblong.
 STAM. *Filaments* six, awl'd, often the length of the corol. *Anthems* oblong, erect.
 PIST. *Germ* above, shorter, nearly three-corner'd, with angles engraved with a line. *Styles* simple. *Stigma* acute.
 PER. *Capsule* very short, broad, three-lobed, three-cell'd, three-valved.
 SEEDS many, roundish.
 OBS. *The three alternate stamens in some species are broad, with the intermediate anther two-fork'd.*

410. LILIUM. * *Tournef.* 195. *Lirium.* *Roy.*
30. *Lily.*

CAL. none.

COR. six-petal'd, bell'd, narrow'd below : *Petals* erect, incumbent, obtusely keel'd on the back, gradually more expanding, broader: the *tops* obtuse, thick, reflected.

Nectary, a longitudinal tubular line, engraved on each petal from the base to the middle.

STAM. *Filaments* six, awl'd, erect, shorter than the corol. *Anthers* oblong, incumbent.

PIST. *Germ* oblong, cylindric, striated with six furrows. *Style* cylindric, the length of the corol. *Stigma* thickish, triangular.

PER. *Capsule* oblong, six-furrow'd, (the top hollow, three-corner'd, obtuse) three-cell'd, three-valved: the *valvelets* connected with hair interwoven lattice-wise.

SEEDS numerous, incumbent in double order, flat, semi-orbicular outwardly.

OBS. The *Nectary* is bearded in some, in others beardless. The *Petals* in some are wholly revolute, in others not so.

411. FRITILLARIA. * *Tournef.* 201. *Petiliurn*
ed. prim. 259. *Corona im-*
perialis (*Crown Imperial*)
Tournef. 197, 198, *Fritil-*
lary.

CAL. none.

COR. six-petal'd, bell'd, expanding at the base. *Petals* oblong, parallel.

Nectary: a pit excavated in the base of each Petal.

STAM. *Filaments* six, awl'd, approximated to the style, the length of the corol. *Anthers* quadrangular, oblong, erect.

PIST. *Germ* oblong, three-corner'd, obtuse. *Style* simple, longer than the stamens. *Stigma* three-fold, expanding, obtuse.

PER. *Capsule* oblong, obtuse, three-lobed, three-cell'd, three-valved.

SEEDS very numerous, flat, semi-orbicular outwardly, placed in double order.

OBS. *Fritillaria* of *Tournef.* has the *Nectary* oblong, the *Pericarp* polish'd. *Imperialis* (*Imperial*) of *Tournef.* has the *Nectary* hemispheric. the *Pericarp* acute on the Margins.

412. UVUL-

412. UVULÁRIA. * (*Grapelet.*)

CAL. none.

COR. *Petals* six, lance-oblong, acute, erect, very long.*Nectary*: an oblong pit, ingraved in the base of each Petal.STAM. *Filaments* six, very short, broadish. *Anthers* long, erect, shorter by half than the corol.PIST. *Germ* roundish. *Style* one, half-threecleft, thread-form, longer than the stamens. *Stigmas* simple, reflected.PER. *Capsule* egg-oblong, triangular, three-cell'd, acute.

SEEDS many, roundish, compress'd.

413. GLORIOSA. * *Methonica Tournef. A. G. 1706. Superb Lily.*

CAL. none.

COR. *Petals* six, lance-oblong, waved, very long, totally reflected.STAM. *Filaments* six, awl'd, shorter than the corol, strait-expanding. *Anthers* incumbent.PIST. *Germ* globular. *Style* thread-form, longer than the stamens, inclining. *Stigma* threefold, obtuse.PER. *Capsule* oval, pellucid, three-cell'd, three-valved.

SEEDS many, globular, disposed in a double series.

OBS. *It is allied to Erythronium.*414. ERYTHRONIUM. * (*Redness*) *Dogtooth-violet.*

CAL. none.

COR. *Petals* six, lance-oblong, pointed, alternately incumbent towards the base, gradually more expanding, reflected from the middle.*Nectaries*: two Tubercles, obtuse, callous, growing near the base of each alternate and interior petal.STAM. *Filaments* six, awl'd, very short. *Anthers* oblong.PIST. *Germ* top-shape. *Style* simple, shorter than the corol, straight. *Stigma* threefold, expanding, obtuse.PER. *Capsule* subglobular, narrower at the base, three-cell'd, three-valved.

SEEDS very numerous, egg'd, pointed.

415. TÚ-

415. TULIPA. * *Tournef.* 199. 200. *Tulip.*

CAL. none.

COR. bell'd. *Petals* six, egg-oblong, concave, erect.STAM. *Filaments* six, awl'd, very short. *Anthers* quadrangular, oblong, erect, distant.PIST. *Germ* large, oblong, column-three-corner'd. *Style* none. *Stigma* three-lobed, triangular: (the *Angles* protuberant, two-cleft) permanent.PER. *Capsule* three-sided, three-cell'd, three-valved: the *valvelets* fringed on the margin, egg'd.

SEEDS very numerous, flat, incumbent in double order, semicircular, separated by similar locks.

416. ALBUCA.

CAL. none.

COR. *Petals* six, oval-oblong, permanent: the three exterior ones spreading; three interior ones converging, (the top thickish, kidney-form) end-nick'd.STAM. *Filaments* six, the length of the corol, three-sided: of these three are *fertile*, linear, broader at the base, plaited on the sides above the base: *Anthers* versatile. Three are *sterile*, alternate, thicker, longer. *Anthers* none.*Nectary* from the furrows of the germ, which are broader at the base, ending in two lateral daggers, included in the broader approximated base of the fertile filaments.PIST. *Germ* oblong, three-sided, subpedicel'd. *Style* three-sided, broader above. The intermediate *Stigma* pyramid-three-sided; round which stand three others less, awl'd, spreading.PER. *Capsule* oblong, obtuse, triangular, three-cell'd, three-valved.

SEEDS numerous, flat, incumbent, broader outwardly.

417. HYPÓXIS. †

CAL. *Glume* two-valved.COR. one-petal'd, above: *Border* six-parted; (the *divisions* egg-oblong, expanding) permanent.STAM. *Filaments* six, very short, capillary. *Anthers* oblong, shorter than the petals.PIST. *Germ* beneath, top-shape. *Style* thread-form, the length of the stamens. *Stigma* obtusish.PER. *Capsule* oblongish, narrower at the base, crown'd with the permanent corol, three-cell'd, three-valved.

SEEDS very numerous, roundish.

1383. EHRHARTA. *Thumb.* Act. holm. am. 1779,
p. 216. *Gram. gen.* p. 32.

CAL. *Glume* abbreviated, one-flowered, two-valved: *Valvelets* nearly egg'd, acute, channel-concave, rather expanding, most smooth, subunequal: the *exterior one* less, egg-lanced, embracing the interior one at the base: the *interior* larger, broad-egg'd, longitudinally striated.

COR. *Glume* double, awnless, twice as long as the calyx: the *exterior one* not expanded, scymitar-form, two-valved: the *Valvelets* oblong, obtuse, complicated, compressed, embracing, hispid, transversely wrinkled, cut off at the base, unequal: the *exterior valvelet* inverse-egg'd, obvolving, before florescence, the greatest part of the interior one, scarcely longer, but broader, keel'd, recurvate on the back, wrinkled below, fortified at the base with two fascicles of hairs: the *inferior fascicle* in the wing of the interior calyx-valvelet: the *superior one* opposite to the inferior: from twenty to thirty hairs in each fascicle, shorter than the calyx: the *interior valvelet* narrower, linear, incurvate, the whole wrinkled, adorned at the base on each side with a fascicle of hairs: *wrinkles* transverse, swathed, elevated.

The *interior Glume* two-edg'd, two-valved: *Valvelets* membranous, complicated, very smooth, unequal: the *exterior* egg'd, striated, margined at top, keel'd at the base, the interior narrower, awl'd, sickled.

Nectary two membranes very minute, very slender, fringed, obvolving the fructification.

STAM. *Filaments* six, very short, inserted in a parallel line on the compress'd receptacle. *Anthers* erect, linear, two-cleft at top, end-nick'd at the base.

PISTIL. *Germ* egg'd, rather compress'd, very small, smooth. *Style* compress'd, very short, smooth. *Stigma* simple, long, compress'd, four-bristled, torn at top, the *Bristles* the length of the stigma, opposed cross-wise.

PER. none.

SEED one, egg'd, smooth.

418. ORNITHOGALUM. * (*Milk-bird*) *Tournef.*
 203. A. D. H. I. K.
Stellaris Dill. gen. 110.
Star of Bethlem.

CAL. none.

COR. *Petals* six, lanced, erect beneath the middle, expanding above the middle, permanent, losing colour.

STAM. *Filaments* six, erect, alternate ones dilated at the base, shorter than the corol. *Anthers* simple.

PIST. *Germ* angular. *Style* awl'd, permanent. *Stigma* obtuse.

PER. *Capsule* roundish, angular, three-cell'd, three-valved.

SEEDS many, roundish.

OBS. The *Filaments* in some are flat, erect, alternate, with a three-cleft top, the middle division sustaining the *Anther*; in others the alternate ones are simple.

419. SCILLA. * *Lilio-Hyacinthus Tournef. 196.*
 B. F. G. *Hyacinthus Stellaris*
Rai. meth. 119. Squill.

CAL. none.

COR. *Petals* six, egg'd, most expanding, deciduous.

STAM. *Filaments* six, awl'd, shorter by half than the corol. *Anthers* oblong, incumbent.

PIST. *Germ* roundish. *Style* simple, the length of the stamens, deciduous. *Stigma* simple.

PER. *Capsule* rather egg'd, smooth, three-furrow'd, three-cell'd, three-valved.

SEEDS many, roundish.

520. CYANELLA. † *Royen.*

CAL. none.

COR. *Petals* six, cohering by claws, oblong, concave, spreading: the three inferior ones propendent.

STAM. *Filaments* six, contiguous to the base, very short, rather expanding: the lowest declining, longer by half. *Anthers* oblong, erect, gaping at top with four obtuse teeth.

PIST. *Germ* three-corner'd, obtuse. *Style* thread-form, declining, the length of the lowest stamen. *Stigma* acutish.

PER. *Capsule* roundish, three-furrow'd, three-cell'd, three-valved.

SEEDS numerous, oblong.

421. AS.

421. ASPHODELUS. * *Tournef.* 178. *Asphodel.*

CAL. none.

COR. one-petal'd, six-parted: the *divisions* lanced, flat, expanding.*Nectary* six valvelets, very small, converging to a globe, inserted into the base of the corol.STAM. *Filaments* six, awl'd, inserted into the valvelets of the nectary, bow'd: the *alternate ones* shorter. *Anthers* oblong, incumbent, ascending.PIST. *Germ* roundish, within the nectary. *Style* awl'd, in the situation of the stamens. *Stigma* lop'd.PER. *Capsule* globular, fleshy, three-lobed, three-cell'd.

SEEDS many, triangular, gibbous on one side.

OBS. The *Filaments* in *some* are declining, in *others* bow'd outwardly.422. ANTHERICUM. * *Phalangium Tournef.*
193. *Bulbine. edit. prior.*
269. *Spider-wort.*

CAL. none.

COR. *Petals* six, oblong, obtuse, most expanding.STAM. *Filaments* six, awl'd, erect. *Anthers* small, incumbent, four-furrow'd.PIST. *Germ* obscurely three-corner'd. *Style* simple, the length of the stamens. *Stigma* obtuse, three-corner'd.PER. *Capsule* egg'd, smooth, three-furrow'd, three-cell'd, three-valved.

SEEDS numerous angular.

OBS. *Various species* have woolly filaments; in *others* the petals do not fall off.*Liliastrum* of *Tournef.* has the corol bell'd.*A. Calyculatum* (*calyx*'d) has the *calyx* three-tooth'd, and three stigmas separate without a style. The character of the Genus is with great difficulty determined.

423. LEONTICE. † *Leontopetalon Tournef.* 484.
Lion's leaf.

CAL. *Perianth* six-leaved, falling off: the *leaflets* linear, expanding: the alternate ones less.

COR. *Petals* six, egg'd, acute, twice as long as the calyx.

Nectary six scales, half egg'd, expanding, pedicel'd, inserted into the claws of the petals, equal.

STAM. *Filaments* six, thread-form, very short. *Anthers* erect, two-cell'd, two valved, gaping at the base.

PIST. *Germ* egg-oblong. *Style* short, columnarish, obliquely inserted into the germ. *Stigma* simple.

PER. *Berry* hollow, globe-pointed, inflated, one-cell'd, subsucculent.

SEEDS few, globular.

POLLIA. *Thunberg. Flor. Jap.*

CAL. none.

COR. six-petal'd. *Petals* three exterior, egg'd, concave, greater, obtuse, alternating with the interior; three interior reflected, nerved, very slender, rather shorter than the bracte.

STAM. *Filaments* six, inserted into the receptacle, capillary, incurved at top. *Anthers* roundish, twin, yellow.

PIST. *Germ* above, globular. *Style* thread-awl'd, incurved, white, scarcely longer than the bracte. *Stigma* simple, obtuse.

PER. *Berry* globular, surrounded with the permanent bracte, and reflected corol, very smooth, the size of Pepper, white when immature, blue when mature.

SEEDS angular, very numerous, even to twenty, tawny.

424. ASPARAGUS. * *Tournef.* 154.

CAL. none.

COR. *Petals* six, cohering with claws, oblong, erect in a tube; the three interior ones alternate, reflected at the top, permanent.STAM *Filaments* six, thread-form, inserted in the petals, erect, shorter than the corol. *Anthers* roundish.PIST. *Germ* top-shape, three-corner'd. *Style* very short. *Stigma* a prominent point.PER. *Berry* globular, navel'd with a dot, three-cell'd.

SEEDS two, round, angular within, smooth.

OBS. *Who calls the flower one-petal'd, may be right. The figure of the corol is different in different flowers; in some erect, in others flat; in others revolute; the flower is pendulous, though the pistil is very short.**A. declinatus (declining) which I have, is a male from the Cape of good Hope.*1256. DRACÆNA. Auth. Vandellio. Oederia
and Stœrckia. Crantz.

CAL. none.

COR. *Petals* six, oblong, erectish, equal, cohering with claws.STAM. *Filaments* six, inserted into the Claws, awl'd, thicker in the middle, membranous at the base, scarcely the length of the corol. *Anthers* oblong, incumbent.PIST. *Germ* egg'd, six-furrow'd. *Style* thread-form, the length of the stamens. *Stigma* three-cleft, obtuse.PER. *Berry* egg'd, six-furrow'd, three-cell'd.

SEEDS solitary, egg-oblong, incurvate at the top.

OBS. *Nearly the Character of Asparagus, the habit is different.*

425. CONVALLARIA. * *a. Liliū convallium*
Tournef. 14. b. Polygonatum Tournef. 41. c.
Unifolium. Dill. gen. 7.
Lily of the Valley.

CAL. none.

COR. one-petal'd, bell'd, smooth: *Border six-cleft, obtuse, reflex-expanding.*

STAM. *Filaments six, awl'd, inserted into the petal, shorter than the corol. Anthers oblong, erect.*

PIST. *Germ globular. Style thread-form, longer than the stamens. Stigma obtuse, three-corner'd.*

PER. *Berry globular, three-cell'd, spotted before maturity.*

SEEDS *solitary, roundish.*

Obs. *The immature spotted Berry affords a common mark to all.*

a. When the corol is globe-bell'd, expanding. 1.

b. When the corol is tube-bell'd. 2. 3. 4.

c. When one third part of the number in the parts of fructification is wanting. 8.

d. When the corol is six-parted, expanding, most acute. 5. 6. 7.

426. POLIANTHES. * *(Polite-flower) Tubero-rose.*

CAL. none.

COR. one-petal'd, funnel-form. *Tube incurved, oblong. Border spreading: with six, egg'd divisions.*

STAM. *Filaments six, thick, obtuse, at the throat of the corol. Anthers linear, longer than the filaments.*

PIST. *Germ roundish, in the bottom of the corol. Style thread-form, rather shorter than the corol. Stigma three-cleft, thickish, melliferous.*

PER. *Capful roundish, obtusely three-corner'd, obvolute at the base of the corol, three-cell'd, three-valved.*

SEEDS *very numerous, flat, incumbent in a double order, semiorbicular.*

427. HYACINTHUS. * *Tournef.* 180. *Muscari.*
Tournef. 180. *Hyacinth.*

CAL. none.

COR. one-petal'd, bell'd. *Border* six-cleft, reflected.

Nectary: three honey-bearing pores at the top of the germ.

STAM. *Filaments* six, awl'd, shorter. *Anthers* converging.

PIST. threecorner-round, three-furrow'd. *Style* simple, shorter than the corol. *Stigma* obtuse.

PER. *Capsule* roundish, three-sided, three-cell'd, three-valved.

SEEDS two (oftner,) roundish.

OBS. *This natural genus hath been distributed among many not natural ones.*

a. *Hyacinthus* of T. has the tube of the corol tubular, oblong.

b. *Muscari* of T. has the corol nearly globular.

c. Some have a six-parted corol; One has a funnel-form corol.

1382. PHORMIUM. *Forst. gen. n. 24. S.*

CAL. none.

COR. *Petals* six, bell'd, or cylindric: three exterior ones shorter, three interior longer, spreading at the top, obtuse.

STAM. *Filaments* six, thread-form, ascending, longer than the corol. *Anthers* erect, nearly three-sided.

PIST. *Germ* above, three-sided. *Style* thread-form, ascending, the length of the corol. *Stigma* simple.

PER. *Capsule* long, three-sided, pointed, three-cell'd, three-valved.

SEEDS most numerous, oblong, depressed.

OBS. *It differs from the Hyacinth in the irregularity of its corol only, and because the three exterior petals are shorter, supplying as it were the place of the calyx.*

428. ALÉTRIS. *False Aloe.*

CAL. none.

COR. one-petal'd, funnel-form, six-angled, much wrinkled, half-sixcleft: (the *divisions of the border* lanced, pointed, expanding, erect,) permanent.

STAM. *Filaments* six, awl'd, the length of the corol, inserted into the base of the divisions of the corol. *Anthers* oblong, erect.

PIST. *Germ* egg'd. *Style* awl'd, the length of the stamens. *Stigma* three-cleft.

PER. *Capsule* egg'd, three-sided, pointed, three-cell'd.

SEEDS most numerous.

OBS. The Stamens *not alternating with the segments of the corol, but being opposite to them, and the Corol being most wrinkled and nearly farinaceous, render the genus very distinct.*

429. YUCCA. * *Dill. gen. 5. Cordyline Roy. ludg. 22. Adam's needle.*

CAL. none.

COR. bell'd, six-parted, cohering by the claws: the *divisions* egg'd, very large, expanding.

STAM. *Filaments* six, very short, thicker upwards, reflected. *Anthers* very small.

PIST. *Germ* oblong, obtusely three-sided, longer than the stamens. *Style* none. *Stigma* three-furrow'd, obtuse, with two-cleft divisions, pervious.

PER. *Capsule* oblong, three-cleft, obtusely triangular, three-cell'd, three-valved.

SEEDS very numerous, incumbent in a double order.

430. ALOE. * *Tournef. 190.*

CAL. none.

COR. one-petal'd, erect, six-cleft, oblong. *Tube* gibbous. *Border* spreading, small: with a nectary-bearing bottom.

STAM. *Filaments* six, awl'd, rather surpassing the corol in length, inserted into the receptacle. *Anthers* oblong, incumbent.

PIST. *Germ* egg'd. *Style* simple, the length of the stamens. *Stigma* obtuse, three-cleft.

PER. *Capsule* oblong, three-furrow'd, three-cell'd, three-valved.

SEEDS many, angular.

OBS. *A. variegata (variegated) has a simple stigma and declining stamens.*

R.

431. AGAVE. * *American Aloe.*

CAL. none.

COR. one-petal'd, funnel-form: *Border* six-parted, equal: with
lanced, erect divisions.STAM. *Filaments* six, thread-form, erect, longer than the corol.
Anthers linear, shorter than filaments, versatile.PIST. *Germ* oblong, attenuated both ways beneath. *Style* thread-
form, the length of the stamens, three-corner'd. *Stigma*
headed, three-corner'd.PER. *Capsule* oblong, triangular, attenuated both ways three-
cell'd, three-valved.

SEEDS numerous.

590. GETHYLLIS. *Papiria. Thunb. Aët. lund. S.*

CAL. none.

COR. one-petal'd. *Tube* cylindric, radical. *Border* six-parted, ex-
panding.STAM. *Filaments* six, inserted into the mouth of the tube, often
divided. *Anthers* spiral.PIST. *Germ* beneath. *Style* simple, *Stigma* clubed.PER. *Berry* club'd, radical, one-cell'd.

SEEDS nidulant, globular.

432. ALSTROEMERIA. * *Amæn. Acad. VI.*p. 247. *Alstroëmeriæ*
monographia.

CAL. none.

COR. six-petal'd, nearly two-lip'd. The three *exterior petals* wedg-
form, refuse, dagger'd; the *interior* alternate ones lanced:
the two inferior to these tubular at the base.STAM. *Filaments* six, awl'd, declining, unequal. *Anthers* oblong.PIST. *Germ* beneath, six-angled, lop'd. *Style* declining, thread-
form, the length of the stamens. *Stigmas* three, oblong, two-
cleft.PER. *Capsule* roundish, six-angled, dagger'd, three-cell'd, three-val-
ved: the valvelets concave, contrary to the partition.SEEDS most numerous, globular, covered with elevated dots, rather
navel'd at the top.

433. HE-

433. **HEMEROCALLIS.** * *Lilio-Asphodelus*
Tournef. 179. Day-
Lily.

CAL. none.

COR. six-parted, bell-funnelform. *Tube short. Border expanding,*
more reflected above.

STAM. *Filaments six, awl'd, the length of the corol, declining: the*
superior ones shorter. Anthers oblong, incumbent, ascending.

PIST. *Germ roundish, furrow'd, above. Style thread-form, the length*
and situation of the stamens. Stigma obtusely three-corner'd,
ascending.

PER. *Capsule egg-three-lobed, three-corner'd, three-cell'd, three-*
valved.

SEEDS very numerous, roundish.

434. **ACÓRUS.** * *Calamus Aromaticus Pett. gen.*
Mich. 31. Sweet Rush.

CAL. *Spadix cylindric, most simple, cover'd with florets. Spathe*
none.

Perianth none (unless you so name the calyx.)

COR. *Petals six, obtuse, concave, loose, thicker above, and nearly*
lop'd.

STAM. *Filaments six, thickish, little longer than the corol. Anthers*
thickish, twin, terminal, adjoined.

PIST. *Germ gibbous, oblongish, the length of the stamens. Style*
none. Stigma a prominent point.

PER. *Capsule short, triangular, attenuated at both ends, obtuse,*
three-cell'd.

SEEDS many, egg-oblong.

LINDÉRA. * *Thunberg. Fl. Jap.*

CAL. none.

COR. six-petal'd. *Petals egg'd, obtuse, yellow, half a line in length.*

STAM. *Filaments six, inserted into the germ, many times shorter than*
the corol. Anthers minute.

PIST. *Germ above, egg'd, smooth. Style one, erect, rather shorter*
than the corol. Stigmas two, reflected.

PER. *Capsule two-cell'd.*

435. ORÓNTIUM. * Aronia. Mich. 1. *Floating Arum.*

CAL. Spadix cylindric, most simple, covered with florets. Spathe none.

Perianth none (unless you adopt the corol.)

COR. Petals six, targetted, angle-roundish, permanent.

STAM. Filaments six, very short, sword-form, within each petal. Anthers twin, oblong.

PIST. Germ roundish, depress'd. Style none. Stigma roundish, two-cleft.

PER. Follicle slender, immersed in the spadix with the corol.

SEED one, round, spungy.

436. CÁLAMUS. † Quill.

CAL. Perianth six-leaved, permanent: the three exterior leaflets shorter, broader; the three interior ones longer, narrower, pointed.

COR. none (unless you adopt the calyx.)

STAM. Filaments six, capillary, longer than the calyx. Anthers round.

PIST. Germ roundish, above. Style three-cleft, columnar, spiral, thread-form. Stigmas simple.

PER. membranous, globular, cover'd with scales, imbricated backwards, obtuse, one-cell'd, first pulpy, then juiceless.

SEED one, globular, fleshy.

437. JÚNCUS. * Tournef. 127. Rush.

CAL. glume two-valved.

Perianth six-leaved: the leaflets oblong, pointed, permanent.

COR. none (unless you call the recent-coloured Perianth the Corol.)

STAM. Filaments six, capillary, very short. Anthers oblong, erect, the length of the perianth.

PIST. Germ three-sided, pointed. Style short, thread-form. Stigmas three, long, thread-form, villous, inflected.

PER. Capsules covered, three-sided, one-cell'd, three-valved.

SEEDS few, roundish.

439. RICHARDIA. † *Houft.* A. A.

CAL. *Perianth* one-leaved, fix-parted, erect, pointed, shorter by half than the corol.

COR. one-petal'd, cylinder-funnelform. *Border* fix-cleft, acute, erect.

STAM. *Filaments* fix, very short. *Anthers* roundish, small at the gashes of the corol.

PIST. *Germ* beneath. *Style* thread-form, the length of the stamens, three-parted above. *Stigmas* obtuse.

PER. none.

SEEDS three, round on one side, angular on the other, broader above, gibbous.

OBS. *To be associated in the natural order with the star'd plants.*

438. ACHRAS. † *Læfing. Jacq. amer.* 56. *Brown.*
Sapota Plum. 4. † *Supota.*

CAL. *Perianth* fix-leaved: the *leaflets* egg'd, concave, erect: the exterior ones broader, shorter; the interior ones colour'd.

COR. one-petal'd, egg'd: the height of the calyx. *Border* fix-cleft: the *divisions* nearly egg'd, flat.

Scales at the throat of the corol, equal to the divisions of it, narrower, spreading, end-nick'd.

STAM. *Filaments* fix, short, awl'd, at the throat of the corol, alternating with its divisions, inflected. *Anthers* acute.

PIST. *Germ* roundish, depress'd. *Style* awl'd, longer than the corol. *Stigma* obtuse.

PER. *Pome* globular, twelve-cell'd, with very soft flesh.

SEEDS solitary, egg'd, glossy; with a longitudinal hile on the margin, claw'd at the top; pointed at the base.

OBS. *A. mammosa, (nipple'd) loses one sixth part of its number.*

441. PRINOS. † *Winter-Berry.*

CAL. *Perianth* one-leaved, half-sixcleft, flat, very small, permanent.

COR. one-petal'd, wheel'd. *Tube* none. *Border* six-parted, flat: *divisions* egg'd.

STAM. *Filaments* six, awl'd, erect, shorter than the corol. *Anthers* oblong, obtuse.

PIST. *Germ* egg'd, ending in a *Style* shorter than the stamens. *Stigma* obtuse.

PER. *Berry* roundish, six-cell'd, much larger than the calyx.

SEEDS solitary, bony, obtuse, convex on one side, angular on the other.

OBS. *It differs from the Ilex chiefly in number. Sometimes it excludes one sixth part of its number.*

1384. DURÓIA. S.

CAL. *Perianth* one-leaved, cylindric, lop'd, closed, very short, above.

COR. one-petal'd. *Tube* cylindric. *Border* the length of the tube, six-parted: the *divisions* egg'd, expanding.

STAM. *Filaments* none. *Anthers* six, within the tube, oblong.

PIST. *Germ* beneath. *Style* thread-form, the length of the tube. *Stigmas* two.

PER. *Pome* globular, navel'd, very hairy: *Hairs* erect.

SEEDS very numerous, nestling, oval, flat, most smooth, incumbent in a double series.

OBS. *The flowers are often abortive, some of the flowers are completely male, which want the germ.*

440. BURSÉRA. *Jacq. amer. 94.*

CAL. *Perianth* three-leaved: the *leaflets* roundish, concave, spreading, small, deciduous.

COR. *Petals* three, egg'd, flat, pointed, most expanding.

STAM. *Filaments* six, awl'd, erect, the length of the calyx. *Anthers* oblong, erect.

PIST. *Germ* egg'd, the length of the stamens. *Style* very short. *Stigma* headed.

PER. *Capsule* egg'd, obscurely triangular, one-cell'd, three-valved: with fleshy, succulent valvelets.

SEED one, berried, compress'd, nearly hearted.

442. BÉRBERIS. * *Tournef.* 385: *Berberry.*

CAL. *Perianth* six-leaved, spreading: the *leaflets* egg'd, with a narrower base, concave, the alternate ones less, colour'd, deciduous.

COR. *Petals* six, roundish, concave, erect-expanding, scarcely larger than the calyx.

Nectary two corpuscles, roundish, colour'd, adjoined to the base of each petal.

STAM. *Filaments* six, erect, compress'd, obtuse. *Anthers* two, growing on both sides the top of the filaments.

PIST. *Germ* cylindric, the length of the stamens. *Style* none. *Stigma* orbicular, broader than the germ, girt with an acute margin.

PER. *Berry* cylindric, obtuse, navel'd with a dot, one-cell'd.

SEEDS two, oblong, cylindric, obtuse.

OBS. *B. cretica*, (*cretan*) has three seeds. R.

1302. CAPURA. †

CAL. none.

COR. one-petal'd, tubular. *Tube* cylindric: *Border* six-parted, with rounded divisions, the alternate exterior ones narrower.

STAM. *Filaments* scarcely any. *Anthers* six, oblong, within the tube: the alternate ones superior.

PIST. *Germ* above, three-corner-roundish, lop'd. *Style* cylindric, very short. *Stigma* subglobular.

PER. *Berry?*

SEEDS

443. LORANTHUS. † *Vaill. act.* 1720. *Jacq. amer.* 97. *Leather-flower*

CAL. *Perianth* of the fruit beneath: the intire margin concave.

Perianth of the flower above, or the intire margin concave.

COR. *Petals* six, oblong, revolute, equal.

STAM. *Filaments* six, awl'd, growing to the bases of the *Petals*, the length of the corol. *Anthers* oblong.

PIST. *Germ* oblong within each *Calyx* or beneath. *Style* simple, the length of the *stamens*. *Stigma* obtuse.

PER. *Berry* oblong, one-cell'd.

SEED oblong.

OBS. *L. europeus* (*european*) differs in the flowers being two-house; and *L. pentandrus* (*five-male*) in the flowers being half-fivecleft, five-male.

444. HILLIA. *Jacq. amer.* 96.

CAL. *Perianth* six-leaved, above: the leaflets oblong, acute, erect.

COR. one-petal'd. Tube cylindric, six-furrow'd, very long. Border six-cleft; with oblong, flat divisions.

STAM. *Filaments* six, very short. *Anthers* oblong, erect, within the throat of the corol.

PIST. *Germ* beneath, oblong, obscurely six-corner'd. *Style* thread-form, the length of the tube. *Stigma* headed.

PER. oblong, compress'd, two-cell'd.

SEED numerous, very small.

1301. CANARINA. *

CAL. *Perianth* above: leaflets six, lanced, recurved, permanent.

COR. one-petal'd, bell'd, six-cleft, nerved.

Nectary with six-valvelets, equal, covering the receptacle, distant.

STAM. *Filaments* six, awl'd, expanding outward, growing from the valvelets. *Anthers* pendulous at the top.

PIST. *Germ* beneath, six-corner'd. *Style* conic, short. *Stigma* longer than the *stamens*, club'd, six-parted.

PER. *Capsule* six-angled, obtuse, six-cell'd.

SEEDS numerous, small.

MAN-

MANDINA. *Thunberg. Fl. Jap.*

- CAL. *Perianth* one-leaved, six-ways imbricated. Scales about six in a single series, egg'd, acute, smooth, white-fleshy, falling off.
- COR. six-petal'd, white, membranous, falling off. *Petals* oblong, concave, acute, longer than the calyx, a line and half in length.
- STAM. *Filaments* six, very short. *Anthers* oblong, erect, yellow with a black line, the length of the corol.
- PIST. *Germ* above, egg'd, brown, smooth. *Style* three-corner'd, very short. *Stigma* three-corner'd.
- PER. *Berry* juiceless, globular, smooth, red without, white within, two-seeded, the size of a pea.
- SEEDS hemispheric, smooth. *Receptacles* globular, white, smooth, pit-dotted.

445. FRANKÉNIA. * *Franca Micb. 22.*

- CAL. *Perianth* one-leaved, subcylindric, ten-corner'd, permanent: the mouth five-tooth'd, acute, spreading.
- COR. *Petals* five: the claws the length of the calyx. Border flat: the folds roundish, expanding.
Nectary with a channel'd, pointed claw, inserted into each claw of the petals.
- STAM. *Filaments* six, the length of the calyx. *Anthers* roundish, twin.
- PIST. *Germ* oblong, above. *Style* simple, the length of the stamens. *Stigmas* three, oblong, erect, obtuse.
- PER. *Capsule* oval, one-cell'd, three-valved.
- SEEDS very numerous, egg'd, very small.
- OBS. The Stigma is six-parted. *Syst. Veg. R.*

PÉP-

PEPLIS. * *Portula* Dill. gen. 7. *Glaucoides*
Mich. 18. *Water Purslane.*

CAL. *Perianth* one-leaved, bell'd, permanent, very large, the mouth twelve-cleft: with alternate reflected toothlets.

COR. *Petals* six, egg'd, most minute, inserted into the throat of the calyx.

STAM. *Filaments* six, awl'd, short. *Anthers* roundish.

PIST. *Germ* egg'd. *Style* very short. *Stigma* orbicular.

PER. *Capsule* hearted, two-cell'd, the partition opposite.

SEEDS most numerous, three-sided, very small.

OBS. In many florets of one and the same plant the corol is intirely wanting.

Of *P. tetrandra* (four-male) one third of the parts of the fructification is deficient. R.

II. TWO FEMALES.

(*Digýnia.*)

1386. GÁHNIA. *Forst.* gen. n. 26. *Gram.* gen. p.
 34. S.

CAL. *Glume* irregular, two-valv'd. *Valvelets* lanced, channel'd, pointed, unequal: the exterior one longer, broader.

COR. *Glume* two-valved, the figure of the calyx-glume, but shorter. *Nectary* glassy, two-valved, involving the filaments. The exterior valvelet larger, wedg-form, with a point: the interior one less, egg'd.

STAM. *Filaments* six, short, smooth, elongated during the florescence. *Anthers* linear, erect, pointed.

PIST. *Germ* oblong, smooth. *Style* thread-form, erect, two-cleft at the top. *Stigmas* two-cleft, simple, very smooth, recurvate.

PER. none.

SEED one, oblong, subangular, smooth, surrounded with filaments permanent, elongated, twice as long as the florets, pendent.

OBS. This Genus has a great similitude to *Schænus*.

448. ORÝ-

448. ORYZA, * Tournef. 296. Mich. B. B. Rice.

CAL. *Glume* one-flower'd, two-valved, very small, pointed, subequal.

COR. two-valved: the *valvets* boat-shape, concave, compress'd: the larger four-angled, awl'd.

Nectary (*Petals in Michel*) two-leaved, flat at one side of the germ, very small: the *leaflets* angular at the base, lop'd at the top, falling off.

STAM. *Filaments* six, capillary, the length of the corol. *Anthers* two-cleft at the base.

PIST. *Germ* top-shape. *Styles* two, capillary, reflected. *Stigmas* club'd, feathery.

PER. none. *Corol* growing to the seed, oval-oblong, compress'd, the margins thin, with two strias on both sides.

SEED one, large, oblong, obtuse, compress'd, two-striated on both sides.

OBS. *Is not the flower composed of two florets? D. Aymen.*

1385. FALKIA. S.

CAL. *Perianth* beneath, one-leaved, funnel-form, five-parted, permanent. *Teeth* lanced.

COR. one-petal'd, bell'd. *Border* enlarged, notch'd, ten-parted.

STAM. *Filaments* six, thread-form, inserted into the tube, erect, unequal, shorter than the corol. *Anthers* egg'd.

PIST. *Germ*s four, above, smooth. *Styles* two, capillary, divaricated. *Stigmas* headed, obtuse.

PER. none.

SEEDS in the bottom of the calyx, four, globular.

OBS. *Allied to Convolvulus.*

449. ATRAPHAXIS. *

CAL. *Perianth* two-leaved: the *leaflets* opposite, lanced, colour'd, permanent.

COR. *Petals* two, roundish, sinuous, larger than the calyx, permanent.

STAM. *Filaments* six, capillary, the length of the calyx. *Anthers* roundish.

PIST. *Germ* compress'd. *Style* none. *Stigmas* two, headed.

PER. none. *Calyx* closed, including the seed.

SEED one, roundish, compress'd.

OBS. A, undulata (waved) differs, the calyx being four-parted: the divisions egg'd, concave; corol none, stamens lanced; style two-cleft, seed roundish. R.

III. THREE

III. THREE FEMALES.

(Trigynia.)

451. RUMEX. * *Lapathum* & *Acetosa*. *Tournef.*
287. *Dock.*CAL. *Perianth* three-leaved: the *leaflets* obtuse, reflected, permanent.COR. *Petals* three, egg'd, greater than the calyx, and like it, converging, permanent.STAM. *Filaments* six, capillary, very short. *Anthers* erect, twin.PIST. *Germ* top-threesided. *Styles* three, capillary, reflected, protruded between the clefts of the converging petals. *Stigmas* large, jagg'd.PER. none. *Corol* converging, three-sided, including the seed.

SEED one, three-sided.

OBS. *R. digynus* (two-female) excludes one third part of the number in all parts of the fructification, except the stamens.*Acetosa* in *Dioecia* (two-house) has the males and females separate.*R. spinosus* (thorny) in *Monoecia* (one-house) hath flowers of both sexes, with the feminine perianths hook'd.*R. alpinus* (alpine) is polygamous.

In some species a callous grain grows externally to the valvelets of the petals.

450. FLAGELLARIA. *Whip.*CAL. *Perianth* six-leaved, equal: the *leaflets* egg'd, permanent: the exterior ones more acute.

COR. none.

STAM. *Filaments* six, thread-form, nearly the length of the calyx. *Anthers* oblong.PIST. *Germ* egg'd, very small. *Style* the length of the stamens, three-cleft. *Stigmas* simple, flattish, permanent.PER. *Drupe* (*Bacca Syst. Veg.* 286.) roundish, one-cell'd, crown'd with the flower.SEED *Nucleus* roundish.

452. SCHEU-

452. SCHEUCHZÉRIA. * *Fl. Lapp. X. 1.*
Less flowering Rush.

CAL. *Perianth* six-parted: the *leaflets* oblong, acute, reflex-expanding, rude, permanent.

COR. none.

STAM. *Filaments* six, capillary, very short, flaccid. *Anthers* erect, obtuse, very long, compressed.

PIST. *Germ*s three, egg'd, compressed, the size of the calyx. *Styles* none. *Stigmas* oblong, obtuse above, growing outwardly to the germ.

PER. *Capsules* as many as germs, roundish, compress'd, inflated, distant-reflected, two-valved.

SEEDS solitary, oblong.

OBS. *The number of the germ and capsules varies from three to six, but three is the most natural.*

453. TRIGLÓCHIN. (*three points*) * *Juncago*
Tournef. 142. Mich. 31.
Arrow-grass.

CAL. *Perianth* three-leaved: the *leaflets* roundish, obtuse, concave, deciduous.

COR. *Petals* three, egg'd, concave, obtuse, like the calyx.

STAM. *Filaments* six, very short. *Anthers* as many, shorter than the corol.

PIST. *Germ* large. *Styles* none. *Stigmas* three, or twice as many, reflected, feathery.

PER. *Capsule* egg-oblong, obtuse; *cells* as many as stigmas, with acute valvelets gaping at the base.

SEEDS solitary, oblong.

454. MELÁNTHIUM. † *Clayt. Black-flower.*

CAL. none, (*unless you so name the corol.*)

COR. *Petals* six, egg-oblong, expanding, (with longer linear claws) permanent.

STAM. *Filaments* six, thread-form, erect, the length of the corol, into which they are inserted above the Claws. *Anthers* globular.

PIST. *Germ* conic, striated. *Styles* three, distinct, curved. *Stigmas* obtuse.

PER. *Capsule* egg'd, three-corner'd, three-furrow'd, three-cell'd, from three capsules inwardly united.

SEEDS very numerous, compress'd, half-egg'd.

Q

455. ME-

455. MEDÉOLA. * *climbing Asparagus.*

CAL. none, (*unless you call the corol a calyx.*)

COR. *Petals* six, egg-oblong, equal, expanding, revolute.

STAM. *Filaments* six, awl'd, the length of the corol. *Anthers* incumbent.

PIST. *Germ*s three, horned, ending in *Styles*. *Stigmas* recurved, thickish.

PER. *Berry* roundish, three-cleft, three-cell'd.

SEEDS solitary, hearted.

OBS. In *M. virginiana*, (*virginian*) which we received from D. Gronovius, we have observed four petals only.

456. TRILLIUM. † *True-love of Canada.*

CAL. *Perianth* three-leaved, expanding: the leaflets egg'd, permanent.

COR. *Petals* three, rather egg'd, somewhat larger than the calyx.

STAM. *Filaments* six, awl'd, shorter than the calyx, erect. *Anthers* terminal, oblong, the length of the filaments.

PIST. *Germ* roundish. *Styles* thread-form, recurved. *Stigmas* simple.

PER. *Berry* roundish, three-cell'd.

SEEDS many, roundish.

457. CÔLCHICUM. * *Tournef. 181. 182. Meadow Saffron.*

CAL. none, (*unless stragling spathes.*)

COR. six-parted. *Tube* angular, rooted: Divisions of the *Border* lance-egg'd, concave, erect.

STAM. *Filaments* six, awl'd, shorter than the corol. *Anthers* oblong, four-valved, incumbent.

PIST. *Germ* buried within the root. *Styles* three, thread-form, the length of the stamens. *Stigmas* reflected, chanel'd.

PER. *Capsule* three-lobed, connected within by a suture, obtuse, three-cell'd, the sutures gaping within.

SEEDS many, subglobular, wrinkled.

458. HE-

458. HELONIAS. †

- CAL. none.
 COR. *Petals* six, oblong, equal, deciduous.
 STAM. *Filaments* six, awl'd, rather longer than the corol. *Anthers* incumbent.
 PIST. *Germ* roundish, three-corner'd. *Styles* three, short, reflected. *Stigmas* obtuse.
 PER. *Capsule* roundish, three-cell'd.
 SEEDS roundish.

IV. FOUR FEMALES.

(Tetragynia.)

 459. PETIVERIA. * *Plum.* 39. Guinea-ben weed.

- CAL. *Perianth* four-leaved: the *leaflets* linear, obtuse, equal, erect, permanent.
 COR. none, (except the colour'd calyx.)
 STAM. *Filaments* six, awl'd, erect, equal, the length of the calyx. *Anthers* simple.
 PIST. *Germ* compress'd, oblong. *Styles* four, awl'd, placed in a straight line. *Stigmas* obtuse, permanent.
 PER. none, unless you esteem the crust of the seed such.
 SEED one, oblong; narrower below, rather columnar; broader above, compress'd, end-nick'd; with *styles* outwardly reflected, rigid, acute, the intermediate ones longer.
 OBS. *P. octandra* (eight-male) differs in having eight stamens.

V. MANY FEMALES.

(Polygynia.)

460. ALISMA. * *Damasonium* Tournef. 132. Vaill.
A. G. 1716. *Water Plantaine.*

CAL. *Perianth* three-leaved: the *leaflets* egg'd, concave, permanent.
COR. *Petals* three, roundish, large, flat, most expanding.
STAM. *Filaments* six, awl'd, shorter than the corol. *Anthers* roundish.
PIST. *Germ*s more than five. *Styles* simple. *Stigmas* obtuse.
PER. *Capsules* compress'd.
SEEDS solitary, small.

OBS. *Damasonium* of Tournef. is distinguished by six pointed, large capsules.

But *Alisma* of Dill. by numerous, obtuse, small capsules.

A. parnassifolia (*Parnassia*-leaved) has awn'd seeds.

C L A S S VII.

SEVEN MALES.

(Heptándria.)

I. ONE FEMALE.

(Monogýnia.)

- 461 Trientális.
1345 Disándra.
462 Æsculus.

II. TWO FEMALES.

(Digýnia.)

- 463 Liméum.

III. FOUR FEMALES.

(Tetragýnia.)

- 464 Saurúrus.
1387 Aponogéton.

IV. SEVEN FEMALES.

(Heptagýnia.)

- 465 Séptas.

SEVEN MALES.

(Heptàndria.)

I. ONE FEMALE.

(Monogýnia.)

461. TRIENTALIS. * *Winter-Green.*

CAL. *Perianth* seven-leaved: the *leaflets* lanced, pointed, expanded, permanent.

COR. star'd, flat, one-petal'd, equal, seven-parted, slightly cohering at the base: with egg-lanced *divisions*.

STAM. *Filaments* seven, capillary, inserted into the claws of the corol, spreading, the length of the calyx. *Anthers* simple.

PIST. *Germ* globular. *Style* thread-form, the length of the stamens. *Stigma* headed.

PER. *Berry* capsular, juiceless, globular, one-cell'd, with a very thin shell, gaping with various sutures.

SEEDS few, angular. *Receptacle* very large, excavated for the seeds.

OBS. *The number is most commonly seven in this plant, altho' it sometimes varies.*

The Fruit is a dry berry, not gaping by valvelets, as a capsule,

1345. DISANDRA.

CAL. *Perianth* one-leaved, 5-8-parted, (with straightish *divisions*), permanent.

COR. one-petal'd, wheel'd: *Tube* very short. *Border* five-parted; with egg'd *divisions*.

STAM. *Filaments* 5-8, bristly, erect-expanding, shorter than the corol. *Anthers* arrow'd.

PIST. *Germ* egg'd. *Style* thread-form, the length of the stamens. *Stigma* simple.

PER. *Capsule* egg'd, the length of the calyx, two-cell'd.

SEEDS very numerous, egg'd.

OBS. *The flower very much varies in number.*

ÆSCU-

462. *ÆSCULUS*. * *Hippocastanum Tournef.* 382.
Pavia Boerb. 260. *Chestnut.*

- CAL. *Perianth* one-leaved, bellied, small, five-tooth'd.
COR. *Petals* five, roundish, wavy on the plaited margin, flat, expanding, (with narrow *claws* inserted into the calyx) unequally colour'd.
STAM. *Filaments* seven, awl'd, the length of the corol, declining. *Anthers* ascending.
PIST. *Germ* roundish, ending in an awl'd *Style*. *Stigma* pointed.
PER. *Capsule* leathery, roundish, three-cell'd, three-valved.
SEEDS two, subglobular.
OBS. *A single seed commonly occurs in the capsule, but the embryos being inspected, it is evident that the natural number is two.*
In this genus Van Royen and Miller observe both male and hermaphrodite flowers.
In *Æ. Pavia* the corol is four-petal'd and closed. R.

H. TWO FEMALES.

(*Digynia.*)

463. *LIMÉUM*. †

- CAL. *Perianth* five-leaved: the *leaflets* egg'd, pointed, keel'd, membranous on the margin: (two of them exterior,) permanent.
COR. *Petals* five, equal, egg'd, rather claw'd, obtuse, shorter than the calyx.
Nectary: a margin surrounding the germ, producing the stamens.
STAM. *Filaments* seven, awl'd, shorter than the corol. *Anthers* egg'd.
PIST. *Germ* globular. *Style* two-parted, cylindric, shorter than the stamens. *Stigmas* obtusish.
PER. *Capsule* two-cell'd, globular.
SEEDS many.

Q 4

III. FOUR

III. FOUR FEMALES.

(Tetragynia.)

464. SAURURUS. * *Lizard's-tail*.CAL. *Ament* oblong, covered with florets.*Proper Perianth* one-leaved, oblong, lateral, colour'd, permanent.

COR. none.

STAM. *Filaments* seven, capillary, long. *Anthers* oblong, erect.PIST. *Germes* four, egg'd, pointed. *Style* none. *Stigmas* oblong, growing to the interior top of the germ.PER. *Berries* four, egg'd, one-cell'd.

SEED one, egg'd.

OBS. Has *S. natans* (swimming) seven stamens? it bears three Pistils. Lin. R.

1387. APONOGETON. S.

CAL. none, except the *Bracte* sessile, egg'd, often two-parted, obtuse colour'd, surrounding the exterior side of the flower.

COR. none.

STAM. *Filaments* six to twelve, awl'd, shorter than the bractes. *Anthers* - - -PIST. *Germes* three or four between the stamens and rachis of the spike. *Styles* pointed. *Stigmas* awl'd, obtuse at the top.PER. *Capsules* three or four, egg'd, awl-pointed, gibbous on the exterior side, three-seeded.

SEEDS three, affixed to the base of the capsule, inverse-egg'd, sub-compressed.

OBS. *The spathe very slender covering the Spike in the one-rank'd, but scarcely in the two-rank'd species. It has the appearance of Potamogeton.**I have inserted this genus into the Class Seven-males, on account of the inconstant number of the stamens.*

IV. SEVEN

IV. SEVEN FEMALES

(Heptagýnia.)

465. SÉPTAS. †

CAL. *Perianth* seven-parted, expanding, acute, permanent.

COR. *Petals* seven, oblong, equal, twice as long as the calyx.

STAM. *Filaments* seven, awl'd, the length of the calyx.

Anthers rather egg'd, erect.

PIST. *Gérms* seven, oblong, ending in *Styles* awl'd, the length of the *stamens*. *Stigmas* obtusish.

PER. *Capsules* seven, oblong, acute, parallel, one-valved.

SEEDS very numerous.

C L A S S VIII.

E I G H T M A L E S.

(Oëtàndria.)

I. O N E F E M A L E.

(Monogýnia.)

466	Tropæolum.	128	Fúchfia.
467	Osbéckia.	1258	Chlóra.
468	Rhéxia.	1303	Dodonæa.
469	Oenothéra.	482	Lawfónia.
470	Gáura.	481	Memécylon.
471	Epilóbium.	483	Vaccínium.
1257	Antíchorus.	484	Eríca.
475	Combrétum.	1304	Ophíra.
474	Griíléa.	485	Dáphne.
476	Allophýlus.	486	Dírca.
478	Mímusops.	487	Gnídia.
479	Jambolífera.	488	Stelléra.
472	Melicócca.	489	Passerína.
1305	Gauréa.	490	Lachnæa.
473	Ámyris.	491	Bæckéa.
470	Ximénia.		

II. T W O

II. TWO FEMALES.

(Digýnia.)

1259 Schmidélia.

492 Galénia.

493 Weinmánnia.

494 Mœhríngia.

1388 Códia.

III. THREE FEMALES.

(Trigýnia.)

495 Polýgonum.

496 Coccóloba.

497 Paullínia.

498 Cardiospérmum.

499 Sapíndus.

IV. FOUR FEMALES.

(Tetragýnia.)

500 Pàris.

501 Adóxa.

502 Elatíne.

1389 Halóragis.

EIGHT MALES.

(Oëtàndria.)

I. ONE FEMALE.

(Monogýnia.)

466. TROPÆOLUM. * *Cardaminum Tournef.*244. *Indian Cress.*

CAL. *Perianth* one-leaved, five-cleft, erect-expanding, acute, colour 'd, deciduous: the two inferior *divisions* narrower; horned behind with a *Nectary* awl'd, straight, longer.

COR. *Petals* five, roundish, inserted into the interstices of the calyx: two superior ones sessile; the remaining inferior ones with oblong fringed claws.

STAM. *Filaments* eight, awl'd, short, declining, unequal. *Anthers* erect, oblong, four-cell'd, ascending.

PIST. *Germ* roundish, three-lobed, striated. *Style* simple, erect, the length of the stamens. *Stigma* three-cleft, acute.

PER. *Berries* solidish, three, on one side convex, furrow-striated, angular on the other.

SEEDS three, gibbous on one side, on the other angled, roundish, furrow-striated.

467. OSBÉCKIA. †

CAL. *Perianth* one-leaved, bell'd, permanent: *Border* four-parted, deciduous: *Lobes* oblong, acute; with a fringed *Scalet* inserted into each lobe.

COR. *Petals* four, roundish, sessile, longer than the calyx.

STAM. *Filaments* eight, thread-form, short. *Anthers* oblong, erect, terminated by a thread-form beak the length of the Anther itself.

PIST. *Germ* egg'd, growing below to the calyx, terminated above by four fringed scales. *Style* awl'd, the length of the stamens, *Stigma* simple.

PER. *Capsule* clothed with the lop'd tube of the calyx, rather egg'd, four-cell'd, the cells gaping longitudinally at the top.

SEEDS very numerous, roundish. *Receptacles* moon'd.

468. RHÉX-

468. RHÉXIA. † Gronov.

CAL. *Perianth* one-leaved, tubular, bellied below, oblong; (with a four-cleft border,) permanent.

COR. *Petals* four, roundish, inserted into the calyx, expanding.

STAM. *Filaments* eight, thread-form, longer than the calyx, inserted into the calyx. *Anthers* declining, furrowed, linear, obtuse, versatile.

PIST. *Germ* roundish. *Style* simple, the length of the stamens, declining. *Stigma* thickish, oblong.

PER. *Capsule* roundish, four-cell'd, four-valved, within the belly of the calyx.

SEEDS numerous, roundish.

469 OENOTHERA. * *Onagra Tournef.* 156.
Tree-Primrose.

CAL. *Perianth* one-leaved, above, deciduous: *Tube* cylindric, erect, long, deciduous. *Border* four-cleft: the divisions oblong, acute, deflected.

COR. *Petals* four, inverse-hearted, flat, inserted into the interstices of the calyx, the length of the divisions of the calyx.

STAM. *Filaments* eight, awl'd, incurved, inserted into the throat of the calyx, shorter than the corol. *Anthers* oblong, incumbent.

PIST. *Germ* cylindric, beneath. *Style* thread-form, the length of the stamens. *Stigma* four-cleft, thick, obtuse, reflected.

PER. *Capsule* cylindric, four-corner'd, four-cell'd, four-valved.

SEEDS very numerous, angular, naked. *Receptacle* columnar, free, four-corner'd.

470 GAURA. * *Virginian Loofestripe.*

- CAL. *Perianth* one-leaved, above, deciduous. *Tube* cylindric, long, thicker at the base, containing four oblong adjoined glands. *Border* four-cleft: the *divisions* oblong, acute, reflected.
- COR. *Petals* four, oblong, ascending towards the upper side, equal, (with narrow claws) placed on the tube of the calyx.
- STAM *Filaments* eight, thread-form, broader above, straight, shorter than the corol: with a conic nectary-bearing *Gland* within the base of each. *Anthers* oblong, versatile.
- PIST. *Germ* oblong, beneath. *Style* thread-form, the length of the stamens. *Stigmas* four, columnar, egg'd, expanding.
- PER. *Drupe* egg'd, four-corner'd, with compress'd angles.
- SEED *Nut* one-seeded, oblong, angular.

471. EPILOBIUM. * *Chamænerion Tournef.* 157.
Willow-Herb.

- CAL. *Perianth* four-leaved, above: the *leaflets* oblong, pointed, color'd, deciduous.
- COR. *Petals* four, roundish, broader outwards, end-nick'd, expanding.
- STAM. *Filaments* eight, awl'd: the *alternate* ones shorter. *Anthers* oval, compress'd, obtuse.
- PIST. *Germ* cylindric, very long, beneath. *Style* thread-form. *Stigma* four-cleft, thick, obtuse, revolute.
- PER. *Capsule* very long, cylindric, striated, four-cell'd, four-valved.
- SEEDS numerous, oblong, crowned with a pappus. *Receptacle* very long, four-corner'd, free, flexible, colour'd.
- OBS. *In some* the stamens and pistil are erect, *in others* declining to the inferior side.

1257. ANTICHORUS.

- CAL. *Perianth* four-leaved, most expanded: the *leaflets* lanced, pointed, deciduous.
- COR. *Petals* four, inverse-egg'd, obtuse, the length of the calyx.
- STAM. *Filaments* eight, bristly, erect, shorter than the corol. *Anthers* roundish.
- PIST. *Germ* above, egg'd. *Style* cylindric, the length of the stamens. *Stigma* obtuse.
- PER. *Capsule* awl'd, four-cell'd, four-valved.
- SEEDS very numerous, lop'd, superimposed four ways.
- OBS. *It has an affinity to Corchorus.*

475. COM-

475. COMBRÉTUM. † *Læfl. it.* 308. 248.

- CAL. *Perianth* one-leaved, above, bell'd, four-tooth'd, deciduous.
 COR. *Petals* four, egg'd, acute, inserted into the calyx, scarcely longer than the calyx.
 STAM. *Filaments* eight, bristly, erect, very long. *Anthers* suboblong.
 PIST. *Germ* beneath, linear. *Style* bristly, the length of the stamens. *Stigma* acute.
 PER. none, except the crust of the seed.
 SEED one, four-corner'd; with membranous angles; pointed.

474. GRISLEA. †

- CAL. *Perianth* one-leaved, awl'd, nearly bell'd, erect, four-tooth'd, colour'd, permanent.
 COR. *Petals* four, egg'd, from the gashes of the calyx, the most minute of all.
 STAM. *Filaments* eight, awl'd, erect, long, ascending. *Anthers* simple, erect, roundish.
 PIST. *Germ* above, globular, pedicel'd. *Style* thread-form, the length of the stamens. *Stigma* simple.
 PER. *Capful* globular, shorter than the calyx, one-cell'd.
 SEEDS very numerous, roundish, very small. *Receptacle* large.
 OBS. Sometimes one third part is added to the parts of the flower.

476 ALLOPHYLLUS. † *Foreigner.*

- CAL. *Perianth* four-leaved; the leaflets orbicular; the two opposite exterior ones twice as small.
 COR. *Petals* four, orbicular, equal, less than the calyx: the claws broader, the length of the smaller leaves of the calyx.
 STAM. *Filaments* eight, thread-form, the length of the corol. *Anthers* roundish.
 PIST. *Germ* above, roundish, twin. *Style* thread-form, longer than the stamens. *Stigma* two-cleft: with revolute divisions.
 PER. - - -
 SEEDS - - -
 OBS. The *Style* is two-cleft, the *Stigma* four-cleft, *Syst. Veg. R.*

478. MIMUSOPS. † *Ape-face.*

CAL. *Perianth* eight-leaved, leathery: the *leaflets* in a double row, egg'd, acute, permanent.

COR. *Petals* eight, lanced, expanding, the length of the calyx.

STAM. *Filaments* eight, awl'd, hairy, very short. *Anthers* oblong, erect, the length of the calyx.

PIST. *Germ* above, round, hispid. *Style* cylindric, the length of the corol. *Stigma* simple.

PER. *Drupe* oval, pointed.

SEEDS one, or two, oval.

OBS. *The Author says in Mant. i. p. 140, that there are sixteen petals, but in Syst. Veg. p. 298, he so defines the Genus, as to ascribe to it a four-leaved calyx, four petals, and a nectary 16-leaved. R.*

479. JAMBOLÍFERA. †

CAL. *Perianth* four-tooth'd, very short, permanent.

COR. *Petals* four, line-lanced, the superior half bent outwardly.

STAM. *Filaments* eight, flattish, awl'd, bent outwardly from the middle; the length of the corol. *Anthers* oval, incumbent.

PIST. *Germ* oval, shaggy above. *Style* thread-form, shorter than the stamens. *Stigma* simple.

PER. - - -

SEEDS - - -

472. MELICÓCCA. *Brown. Jacq. amer. 108.*
Honey-Berry.

CAL. *Perianth* four-tooth'd: the *leaflets* egg'd, concave, obtuse, expanding.

COR. *Petals* four, oblong, equal, all reflected between the leaflets of the calyx.

STAM. *Filaments* eight, awl'd, erect, short. *Anthers* oblong, erect.

PIST. *Germ* egg'd; nearly the length of the corol. *Style* very short. *Stigma* large, nearly targetted, extended on both sides, oblong.

PER. *Drupe* barky, roundish, obtusely pointed.

SEED *A Nut* leathery, roundish, smooth.

1305. GAURÉA. † *Auth. Allamando.*CAL. *Perianth* one-leaved, four-parted, flattish, short.COR. *Petals* four, erect, linear, acute.*Nectary* tubular, subcylindric, most intire, the length of the corol.STAM. *Filaments* none. *Anthers* eight, growing to the interior margin of the nectary.PIST. *Germ* globular, sitting on the cylindric receptacle, which is crowned with a glandular margin. *Style* thread-form, protruded. *Stigma* headed, depressed, undivided.PER. *Capsule* globular, navel-four-furrow'd, four-cell'd, four-valved.

SEEDS solitary, oblongish, aril'd outwardly.

OBS. *It must be distinguished from Trichilia, to which it nearly approaches.*473. ÁMYRIS. † *Brown. Jacq. amer. 107.*CAL. *Perianth* one-leaved, four-tooth'd, acute, erect, small, permanent.COR. *Petals* four, oblong, concave, expanding.STAM. *Filaments* eight, awl'd, erect. *Anthers* oblong, erect, the length of the corol.PIST. *Germ* above, egg'd. *Style* thickish, the length of the stamens. *Stigma* four-corner'd.PER. *Berry* drupaceous, roundish.SEED *A Nut* globular, glossy.OBS. A. *Protium* differs in some parts of the fructification from its kindred. R.470. XIMÉNIA. *Plum. 21. Jacq. amer. 106.*CAL. *Perianth* one-leaved, four-cleft, pointed, very small, permanent.COR. *Petals* four, oblong, hairy within, erected into a tube below, revolute above.STAM. *Filaments* eight, erect, short. *Anthers* linear, erect, obtuse, the length of the corol.PIST. *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigma* obtuse.PER. *Drupe* nearly egg'd.SEED *Nut* roundish.

R

128. FUCH-

128. FUCHSIA. *Plum.* 14.

CAL. none. *Margin* intire, above.

COR. one-petal'd, funnel-form. *Tube* club'd. *Border* eight-cleft, flat: the *divisions* pointed, the inferior ones alternate.

STAM. *Filaments* eight, the length of the tube. *Anthers* twin, roundish.

PIST. *Germ* egg'd, beneath. *Style* simple, the length of the stamens. *Stigma* obtuse.

PER. *Berry* roundish, four-furrow'd, four-cell'd.

SEEDS many, egg'd, placed in a double order.

OBS. *Plumier* in his *Genera* describes four stamens, but in his *History* he oftner delineates eight; therefore other observers must determine the number.

1258. CHLORA. *Adans.* *Blakstonia.* *Huds.* *Angl.*
146. *Yellow Gentian.*

CAL. *Perianth* eight-leaved: the *leaflets* linear, spreading, permanent.

COR. one-petal'd, salver-form. *Tube* shorter than the calyx, cloathing the germ. *Border* eight-parted: the *divisions* lanced, longer than the tube.

STAM. *Filaments* eight, very short, sitting in the throat. *Anthers* linear, erect, shorter than the divisions.

PIST. *Germ* egg-oblong. *Style* thread-form, the length of the tube. *Stigmas* four, oblong, cylindric.

PER. *Capsule* egg-oblong, one-cell'd, rather compress'd, two-furrow'd, two-valved: the valvelets incurv'd on the side.

SEEDS numerous, minute.

OBS. *It has an affinity with Gentiana.*

C. dodecandra (twelve-male) has the flowers twelve-cleft, not twelve-male flowers. R.

1303. DODONÆA. † *Gen. plant.* i. n. 855. *Jacq. amer.* 109.

CAL. *Perianth* four-leaved, flat: the *leaflets* egg'd, obtuse, concave, deciduous.

COR. none.

STAM. *Filaments* eight, very short. *Anthers* oblong, bow'd, converging; the length of the calyx.

PIST. *Germ* three-sided, the length of the calyx. *Style* cylindric, three-furrow'd, erect. *Stigma* nearly three-cleft, acutish.

PER. *Capsule* three-furrow'd, inflated, three-cell'd: with large membranous angles,

SEEDS two, roundish.

Obs. *Jacquin, Brown, and other Spectators consider it as a distinct Genus.*

82. LAWSONIA. † *Henna Ludw.* 143.

CAL. *Perianth* four-cleft, small, permanent.

COR. *Petals* four, egg-lanced, flat, expanding.

STAM. *Filaments* eight, thread-form, the length of the corol, by pairs two and two within the petals. *Anthers* roundish.

PIST. *Germ* roundish. *Style* simple, the length of the stamens, permanent. *Stigma* headed.

PER. *Capsule* globular with a point, four-cell'd.

SEEDS many, angular, pointed.

81. MOMÉCYLON.

CAL. *Perianth* undivided, above, bell'd, top-shape, most intire: with a pitcher'd striated bottom; permanent.

COR. *Petals* four, egg'd, acute, expanding.

STAM. *Filaments* eight, erect, dilated at the top, lop'd. *Anthers* simple, inserted into the sides of the top of the filament.

PIST. *Germ* top-shape, beneath. *Style* awl'd. *Stigma* simple.

PER. *Berry* crown'd with a cylindric calyx.

SEED

483. VACCINIUM. * *Vitis idæa* Tournef. 377.
Oxycoccus Tournef. 431.
Whortle Berries.

CAL. *Perianth* very small, above, permanent.

COR. one-petal'd, bell'd, four-cleft: with revolute *divisions*.

STAM. *Filaments* eight, simple, inserted into the receptacle. *Anthers* two-horn'd, furnished with two expanding awns on the back, gaping at the top.

PIST. *Germ* beneath. *Style* simple, longer than the stamens. *Stigma* obtuse.

PER. *Berry* globular, navel'd, four-cell'd.

SEEDS few, small.

OBS. *The Number is often increased one fourth in every part of the fructification.*

The Calyx in many is four-cleft, but in Myrtillus (Bilberry) mostly intire.

The recent Corol is almost intirely rolled back to the base in Oxycoccus. (Crainberry.)

484. ERICA. * *Tournef.* 373. *a. Heath.*

CAL. *Perianth* four-leaved: the *leaflets* egg'd, erect, colour'd, permanent.

COR. one-petal'd, bell'd, four-cleft, often bellied.

STAM. *Filaments* eight, capillary, inserted into the receptacle. *Anthers* two-cleft at the top.

PIST. *Germ* roundish. *Style* thread-form, straight, longer than the stamens. *Stigma* coronetted, four-corner'd, four-cleft.

PER. *Capsule* roundish, less than the calyx, cover'd, four-cell'd, four-valved.

SEEDS numerous, very small.

OBS. *There are species with a double calyx.*

The figure of the Corol varies from egg'd and oblong in different species.

The Anthers in some are two-horn'd, but end-nick'd in most of the Cape species.

The Stamens in some are longer than the corol, in others shorter.

The Stigma also is various in different species. R.

1304. OPHÍRA. a *Jo. Burmanno.*

- CAL. *Involucre* two-valved, three-flower'd: the *valvelets* lateral, kidney-form, end-nick'd, conduplicate, permanent.
 COR. four-petal'd, above: *Petals* oblong, converging.
 STAM. *Filaments* eight, the length of the corol. *Anthers* egg'd.
 PIST. *Germ* beneath, top-shape, hispid. *Style* thread-form, shorter than the stamens. *Stigma* end-nick'd.
 PER. *Berry* one-cell'd.
 SEEDS two.

485. DÁPHNE. * *Thymelæa Tournef.* 366. *Spurge-Laurel.*

- CAL. none.
 COR. one-petal'd, funnel-form, withering, including the stamens. *Tube* cylindric, unperforated, longer than the border. *Border* four-cleft; the *divisions* egg'd, acute, flat, expanding.
 STAM. *Filaments* eight, short, inserted into the tube: the *alternate ones* inferior. *Anthers* roundish, erect, two-cell'd.
 PIST. *Germ* egg'd. *Style* very short. *Stigma* headed, flat-depress'd.
 PER. *Berry* roundish, one-cell'd.
 SEED one, roundish, fleshy.

486. DIRCA. *Leatherwood.*

- CAL. none.
 COR. one-petal'd, club'd. *Tube* more bellied above. *Border* obscure, with an unequal margin.
 STAM. *Filaments* eight, capillary, inserted into the middle of the tube, longer than the corol. *Anthers* roundish, erect.
 PIST. *Germ* egg'd: with an oblique top. *Style* thread-form, longer than the stamens, curved at top. *Stigma* simple.
 PER. *Berry* one-cell'd.
 SEED one.

487. GNÍDIA. † *Struthia* Roy.

CAL. *Perianth* one-leaved, funnel-form, colour'd: the *Tube* thread-form, very long: with a four-parted flat *border*.

COR. *Petals* four, sessile, flat, shorter than the calyx, and inserted into it.

STAM. *Filaments* eight, bristly, erect, the length of the flower. *Anthers* simple.

PIST. *Germ* egg'd. *Style* thread-form, inserted into the side of the germ, the length of the stamens. *Stigma* headed, hispid.

PER. none: *Fruit* in the bottom of the calyx.

SEED one, egg'd, obliquely acute.

OBS. Hence it differs in the corol alone from *Passerina*.

488. STELLERA. † *Gmelin*. *Chamæjasme*. *Amm.*
German-Grounsel.

CAL. none.

COR. one-petal, funnel-form, permanent: *Tube* thread-form, long: *Border* four-(five)-cleft: with egg'd lobes.

STAM. *Filaments* eight, (ten,) very short. *Anthers* oblong, alternate in the middle of the tube, alternate within the throat.

PIST. *Germ* rather egg'd. *Style* very short, permanent. *Stigma* headed.

PER. none.

SEED one, glossy, beaked.

OBS. *S. Passerina* is eight-male, *Chamæjasme* ten-male.

489. PASSERINA. *Sparrow-wort.*

CAL. none.

COR. one-petal'd, withering: *Tube* cylindric, slender, bellied beneath the middle; *Border* four-cleft, expanding: the *divisions* concave, egg'd, obtuse.STAM. *Filaments* eight, bristly, the length of the border, placed on the top of the tube. *Anthers* rather egg'd, erect.PIST *Germ* egg'd, within the tube of the corol. *Style* thread-form, growing out of the side of the top of the germ itself, the length of the tube of the corol. *Stigma* headed, every where hispid with hairs.

PER. leathery, egg'd, one-cell'd.

SEED one, egg'd, pointed at both ends, with oblique tops.

OBS. *P. capitata* (headed) differs in having flowers without a tube, and sixteen stamens, of which the eight interior are castrated. R.*P. uniflora* (one-flower'd) hath eight stamens, beside the rudiments of eight anthers latent in the bottom of the flower. R.490. LACHNÆA. † *Roy,*CAL. *Perianth* one-leaved, permanent: *Tube* long, slender: *Border* four-parted unequal: the highest *division* erect, very small; the three remaining divisions reflected: the intermediate one larger.

COR. none.

STAM. *Filaments* eight, bristly, erect, nearly the length of the flower. *Anthers* simple.PIST. *Germ* egg'd. *Style* thread-form, inserted into the side of the germ, the length of the stamens. *Stigma* headed, hispid.PER. none. *Fruit* in the bottom of the calyx.

SEED one, egg'd, obliquely acute.

OBS. *It differs from Passerina only in its unequal calyx.*

491. BÆCKEÆ.

CAL. *Perianth* one-leaved, funnel-form, five-tooth'd, permanent.COR. *Petals* five, roundish, spreading, inserted into the calyx.STAM. *Filaments* eight; of which six are equal, two solitary, very short, inflected. *Anthers* rather egg'd, small.PIST. *Germ* roundish. *Style* thread-form, shorter than the corol. *Stigma* headed.PER. *Capsule* globular, crown'd, four-cell'd, four-valved.

SEEDS few, roundish, angular on one side.

II. TWO FEMALES.

(*Digýnia.*)

1259. SCHMIDÉLIA.

CAL. *Perianth* two-leaved: the *leaflets* roundish, colour'd, larger than the corol.

COR. *Petals* four, roundish, sessile.

STAM. *Filaments* eight, simple, the length of the flower. *Anthers* roundish.

PIST. *Germ* two, pedicel'd, compress'd, longer than the flower. *Styles* simple, short. *Stigmas* simple.

PER. two, pedicel'd.

SEEDS solitary?

492. GALÉNIA. * *Sherardia Pont. epist.* 14.

CAL. *Perianth* very small, four-cleft, concave: with oblong divisions.

COR. none.

STAM *Filaments* eight, capillary, scarcely the length of the calyx. *Anthers* twin.

PIST. *Germ* roundish. *Styles* two, simple, reflected. *Stigmas* simple.

PER. *Capsule* roundish, two-cell'd.

SEEDS two, oblong, angular.

. 493. WEIN-

493. WEINMANNIA. *Windmannia Brown p. 212.*

CAL. *Perianth* four-leaved : the *leaflets* egg'd, spreading.

COR. *Petals* four, equal, larger than the calyx.

STAM. *Filaments* eight, erect, short. *Anthers* roundish.

PIST. *Germ* roundish. *Styles* two, the length of the stamens. *Stigmas* acute.

PER. *Capsule* egg'd, two-cell'd, two-beaked.

SEEDS about eight, roundish.

494. MOEHRINGIA. *

CAL. *Perianth* four-leaved: the *leaflets* lanced, expanding, permanent.

COR. *Petals* four, egg'd, undivided, expanding, shorter than the calyx.

STAM. *Filaments* eight, capillary. *Anthers* simple.

PIST. *Germ* globular. *Styles* two, erect, the length of the stamens. *Stigmas* simple.

PER. *Capsule* subglobular, one-cell'd, four-valved.

SEEDS very numerous, roundish, convex on one side, on the other angular.

1388. CÓDIA. *Forst. gen. n. 30. S.*

CAL. *Common* four-leaved : the *leaflets* reflected beneath the head.
Proper four-leaved : the *leaflets* elliptic, erect.

COR. *Petals* four, linear.

STAM. *Filaments* eight, threadform ; two growing at each base of a petal, longer than the corol. *Anthers* egg-angular.

PIST. *Germ* very small, above, most villous. *Styles* two, awl'd, the length of the stamens. *Stigmas* simple.

PER. *Capsule* very small, two-cell'd, two-beaked.

SEEDS

Common Receptacle villous.

OBS. *It hath a too great affinity with the Brunias. The Fruit must determine whether it is a distinct genus. Indeed most of the species of Brunia are two-female.*

III. THREE

III. THREE FEMALES.

(Trigýnia.)

495. POLYGNUM. * (*many-joints*) Tournef. 290.
 Bistorta Tournef. 291. Persicaria Tournef. 290. Fagopyrum Tournef. 290. Helxine
 edit. prior. Knot-grass.

CAL. *Perianth* top-shape, colour'd internally, five-parted: the divisions egg'd, obtuse, permanent.

COR. none, (*unless you adopt the calyx.*)

STAM. *Filaments* oftner eight, awl'd, very short. *Anthers* roundish, incumbent.

PIST. *Germ* three-sided. *Styles* oftner three, thread-form, very short. *Stigmas* simple.

PER. none. *Calyx* involving the seed.

SEED one, three-sided, acute.

OBS. *There are in some six stamens, in others seven, in others five. The Pistil in some is two-cleft.*

P. frutescens (*shrubby*) has a two-leaved calyx and three petals. R.

496. COCCOLOBA. * (*Husk-berry*) Brown. 14.
f. 3. Jacq. amer. III.

CAL. *Perianth* one-leaved, five-parted: the divisions oblong, obtuse, concave, most expanding, colour'd, permanent.

COR. none.

STAM. *Filaments* eight, awl'd, spreading, shorter than the calyx. *Anthers* roundish, twin.

PIST. *Germ* egg'd, three-corner'd. *Styles* three, short, thread-form, expanding. *Stigmas* simple.

PER. none. *Calyx* berried, thicken'd, converging, involving the seed.

SEED *Nut* egg'd, acute, one-cell'd.

497. PAUL-

497. PAULLÍNIA. † *Jacq. amer.* 110. *Seriana*
Plum. 35. *Cururu Plum.* 35.

CAL. *Perianth* five-leaved: the *leaflets* egg'd, concave, expanding, permanent: the two exterior ones opposite, one of the interior larger.

COR. *Petals* four, inverse-egg'd, oblong, twice as large as the calyx, claw'd, two more distant.

Nectaries two, one four-petal'd inserted into the claws of the corol; the other with four glands at the bases of the petals.

STAM. *Filaments* eight, simple, short. *Anthers* small.

PIST. *Germ* top-shape; three-sided, obtuse. *Styles* three, thread-form, short. *Stigmas* simple, expanding.

PER. *Capsule* large, three-sided, three-cell'd, three-valved.

SEEDS solitary, nearly egg'd.

OBS. *The Capsule of Seriana Pl. bears the seeds at the base. But the Capsule of Cururu Pl. bears the seeds at the top.*

498. CARDIOSPERMUM. * *Corindum Tournef.*
 246. *Veficaria Riv.* IV.
 144. *Heart-seed.*

CAL. *Perianth*, four-leaved: the *leaflets* obtuse, concave: the alternate interior ones the size of the corol, permanent.

COR. *Petals* four, obtuse, alternate with the larger leaflets of the calyx.

Nectary four-petal'd, colour'd, including the germ: the *leaflets* growing on the petal, obtuse, two on the erect lip, callous at the top, hook'd on the side; the rest on the closed lip with equal sides.

STAM. *Filaments* eight, awl'd, equal to the nectary. *Anthers* small.

PIST. *Germ* three-sided. *Styles* three, short. *Stigmas* simple.

PER. *Capsule* roundish, three-lobed, inflated, three-cell'd, gaping at the top.

SEEDS solitary, globular, marked at the base with an hearted scar.

449. SAPINDUS, † *Tournef.* 440. Soap-berry.

CAL. *Perianth* four-leaved, expanding: the *leaflets* rather egg'd, subequal, flat, expanding, colour'd, deciduous; two of these exterior.

COR. *Petals* four, egg'd, claw'd: two more approximated.

Nectary with four leaflets oblong, concave, erect, inserted into the base of the petals. Four roundish glands inserted into the base of the petals.

STAM. *Filaments* eight, the length of the flower. *Anthers* hearted, erect.

PIST. *Germ* triangular. *Styles* three, short. *Stigmas* simple, obtuse.

PER. *Capsules* three, fleshy, globular, conjoin'd, inflated.

SEED *Nut* globular.

OBS. *All the three capsules seldom arrive at maturity: two are commonly abortive, as observed by Houston. It seems allied to Paullinia and Cardiospermum.*

IV. FOUR FEMALES.

(Tetragýnia.)

500. PÁRIS. *Herba Paris *Tournef.* 177. True-love.
One-berry.

CAL. *Perianth* four-leaved, permanent: the *leaflets* lanced, acute, the size of the corol, expanding.

COR. *Petals* four, expanding, awl'd, similar to the calyx, permanent.

STAM. *Filaments* eight, awl'd, short beneath the *Anthers*. *Anthers* long, adjoined on both sides to the middle of the filaments.

PIST. *Germ* round-four-corner'd. *Styles* four, expanding, shorter than the stamens. *Stigma* simple.

PER. *Berry* globe-four-corner'd, four-cell'd,

SEEDS many, incumbent in a double order.

501. ADÓXA.

501. ADÓXA. * (*Inglorious*) *Moschattelina Tournef.*
68. *Hollow-root.*

- CAL. *Perianth* beneath, two-cleft, flat, permanent.
COR. one-petal'd, flat, four-cleft: the *divisions* egg'd, acute, longer than the calyx.
STAM. *Filaments* eight, awl'd, the length of the calyx. *Anthers* roundish.
PIST. *Germ* beneath the receptacle of the corol. *Styles* four, simple, erect, the length of the stamens, permanent. *Stigmas* simple.
PER. *Berry* globular, between the calyx and corol, the calyx coalesced beneath with the berry, navell'd, four-cell'd.
SEEDS solitary, compress'd.
OBS. *Such is the terminal fructification: but all the lateral ones add one fifth part of the number.*

502. EÁLTINE. * *Potamopithys Buxb. A. P.*
Alfinastrum Vaill. B. P. I. f. 6.
Water-wort.

- CAL. *Perianth* four-leaved: the *leaflets* roundish, flat, the size of the corol, permanent.
COR. *Petals* four, egg'd, obtuse, sessile, expanding.
STAM. *Filaments* eight, the length of the corol. *Anthers* simple.
PIST. *Germ* orbicular, globe-depress'd, large. *Styles* four, erect, parallel, the length of the stamens. *Stigmas* simple.
PER. *Capsule* orbicular, globe-depress'd, large, four-cell'd, four-valved.
SEEDS many, moon'd, erect, wheel-wise surrounding the receptacle.

1389. HALÓRAGIS. *Forst. gen. n. 31. S.*

- CAL. *Perianth* above, four-cleft, adjoin'd to the germ, permanent.
COR. *Petals* four, egg'd, erect, concave. *Claws* acute, small.
STAM. *Filaments* eight, thread-form. *Anthers* long, four-furrow'd.
PIST. *Germ* beneath, smooth. *Styles* four, very short. *Stigmas* nearly four-angled, lop'd, pimply.
PER. *Drupe* dry, globular, crowned with a permanent calyx.
SEED *Nut* bony, four-cell'd. *Nucleuses* solitary, minute.
OBS. *I am doubtful concerning the fruit; and suppose, that the mature Nut gapes.*

CLASS IX.

270 NINE MALES. ONE, THREE, SIX FEMALES.

C L A S S IX.

NINE MALES.

(*Ennéándria.*)

I ONE FEMALE.

(*Monogýnia.*)

503 Láurus.

520 Anacárdium.

504 Tínus.

505 Cassýta.

II. THREE FEMALES.

(*Trigýnia.*)

506 Rhéum.

III. SIX FEMALES.

(*Hexagýnia.*)

507 Bútomus.

NINE

NINE MALES.

(Enneandria.)

I. ONE FEMALE.

(Monogynia.)

503. LAURUS. * *Tournef.* 367. *Jacq. amer.* 117.
Cinnamomum Herm. H.L.B. 656.
Burm. zeyl. 28: 1. *Camphora Gro-*
nov. Diss. *Persea Plum.* 20. *Borbo-*
nia Plum. 2. *Benzoe Boerb.* *Sassa-*
fras Off. *Laurel.*

CAL. none, (unless you call the corol the calyx.)

COR. Petals six, egg'd, pointed, concave, erect: the alternate ones exterior.

Nectary consisting of three tubercles, pointed, colour'd, ending in two bristles, standing round the germ.

STAM. Filaments nine, shorter than the corol, compress'd, obtuse, three in each order. Anthers adjoined above on both sides to the margin of the filaments.

Glands two, globular, with a very short petiole affixed near the base to each filament of the inmost order.

PIST. Germ nearly egg'd. Style simple, equal, the length of the stamens. Stigma obtuse, oblique.

PER. Drupe oval, pointed, one-cell'd, the corol included.

SEED Nut egg-pointed. Nucleus of the same form.

OBS. The greatest part of the species along with *Cinnamomum* & *Camphora* is hermaphrodite: in some however the Males come forth separately as in the class one-house, as in *L. nobilis* (noble) where also the stamens are very often from eight to fourteen, and the corol is four-parted, naked.

The corpuscles annexed to some of the filaments afford an essential character.

The stamens vary in number. R.

520. ANACÁRDIVM. * *Acajou Tournef.* 435.
Cashew-nut.

CAL. five-parted: the *divisions* egg'd, pointed, erect, deciduous.

COR. *Petals* five, lance-linear, acute, twice as long as the calyx, reflected, erect below.

STAM. *Filaments* ten, capillary erect, shorter than the calyx, one of these castrated, longer. *Anthers* small, roundish.

PIST. *Germ* roundish. *Style* awl'd, inflected, the length of the corol. *Stigma* oblique.

PER. none. *Receptacle* fleshy, very large, inverse-egg'd.

SEED *Nut* kidney-form, large, placed at the top of the receptacle.

Cl. ROTTBOELL (*Coll. soc. med. Haun. 2. p. 252.*) fixes the character of the genus illustrated by new specimens in the following manner.

The Plant is of the class Polygamy, Two-house.

* *The hermaphrodite flower.*

CAL. *Perianth* five-leaved: the *leaflets* egg'd, concave, erect, colour'd, subvillous.

COR. *Petals* five, lanced, acute, &c. as in the character of *Limens*.

STAM. *Filaments* 8 to 10 connected at the base; one of these thicker than the rest, and one third part longer, answering to the greater lobe of the germ; which has an *Anther* three-sided, large, fertile, *deciduous*; the rest have *Anthers* less, fruitless, permanent, the figure of the former.

PIST. *Germ* oblong, kidney-form, with one lobe larger placed higher. *Style* single, from the bosom of the germ, awl'd, equal to the corol. *Stigma* small, roundish, depress'd, concave. *Receptacle* and *Fruit* as in *Linneus*.

* *The male flower on a different plant.*

CALYX, COROL, STAMENS, as in the hermaphrodite flowers.

PIST. *Germ* o, or abortive. R.

504. TÍNUS. *Volkameria Brown. t. 21. f. 1.*

CAL. *Perianth* one-leaved, five-cleft, bell'd, erect.

COR. one-petal'd, five-cleft, obtuse.

Nectary pitcher'd, nearly egg'd, concave, perforated in the mouth, occupying the centre of the receptacle.

STAM. *Filaments* nine, short. *Anthers* hearted.

PIST. *Germ* globular, beneath the nectary. *Style* simple, short. *Stigmas* three, obtuse.

PER. *Berry* roundish, three-cell'd.

SEEDS solitary, oblong.

OBS. *The Nectary in the manner of Canella.*

505. CASSYTA. * Osbeck. *Jacq. amer. 115.*

CAL. *Perianth* three-leaved, very small, permanent: the *leaflets* half-egg'd, acute, concave, erect.

COR. *Petals* three, roundish, acute, concave, permanent.

Nectary with three *glands*, oblong, lop'd, colour'd, the length of the germ, standing round the germ.

STAM. *Filaments* nine, erect, compressed. *Glands* two, globular, sitting on each of the three interior filaments at the sides of the base. *Anthers* adjoined to the filaments beneath the top.

PIST. *Germ* egg'd, within the corol and calyx. *Style* thickish, the length of the stamens. *Stigma* obscurely three-cleft, obtuse.

PER. *Receptacle* increasing to a *Drupe*, globe-depress'd, crowned with the converging calyx and corol, perforated in the navel.

SEED *Nut* globular, pointed with the converging stamens.

OBS. *There is no calyx but a six-parted corol; therefore the calyx is now taken for part of the corol. Syst. Veg. p. 318. R.*

III. THREE FEMALES. (*Trigýnia.*)

506. RHÉUM. * *Rhabarbarum Tournef.* 18. *Rhubarb.*

CAL. none.

COR. one-petal'd, narrow at the base, impervious, six-lobed on the border: the *divisions* obtuse, the *alternate ones* less; withering.

STAM. *Filaments* nine, capillary, inserted into the corol, and the length of it. *Anthers* twin, oblong, obtuse.

PIST. *Germ* short, three-sided. *Styles* scarcely any. *Stigmas* three, reflected, feathery.

PER. none.

SEED one, large, three-sided, acute with membranous margins.

III. SIX FEMALES. (*Hexagýnia.*)

507. BÚTOMUS. * *Tournef.* 143. *Flowering Rush.*

CAL. *Involucre* simple, three-leaved, short.

COR. *Petals* six, roundish, concave, withering: the *alternate ones* exterior, less, acute.

STAM. *Filaments* nine, awl'd, of which six are exterior. *Anthers* two-folded.

PIST. *Germ*s six, oblong, pointed, ending in the *Styles*. *Stigmas* simple.

PER. *Capsules* six, oblong, gradually attenuated, erect, one-valved, gaping inwardly.

SEEDS very numerous, cylinder-oblong, obtuse at both ends.

CLASS X.

CLASS X.

TEN MALES.

(Decandria.)

I. ONE FEMALE.

(Monogynia.)

508	Sophóra.	528	Trichília.
509	Anágyris.	1306	Turræa.
510	Cércis.	521	Swieténia.
511	Bauhínia.	527	Mélia.
512	Hymenæa.	530	Zygophylum.
513	Parkinsónia.	529	Quássia.
514	Cássia.	531	Fagónia.
515	Poinciána.	532	Tribulus.
1390	Myróxylon.	533	Thryállis.
516	Cætalpínia.	534	Limónia.
517	Guilandína.	536	Monótropa.
518	Guájacum.	1307	Dionæa.
519	Cynométra.	538	Jussieúa.
1285	Códon.	535	Heistéria.
522	Dictámnus.	539	Quisquális.
523	Rúta.	540	Dáís.
524	Toluífera.	544	Melástoma.
525	Hæmatóxylon.	545	Kálmia.
1260	Prosópis.	546	Lédum.
1261	Chálcas.	548	Rhododéndron.
1341	Murráya.	542	Andrómeda.
	Bergéra.	550	Epigæa.
526	Adenanthéra.	551	Gaulthéria.

- 552 Árbutus.
- 1391 Inocárpus.
- 553 Cléthra.
- 554 Pýrola.
- 546 Stýrax.
- 543 Sámyda.
- 542 Copaífera.
- 541 Bucida.

II. TWO FEMALES.

(Digýnia.)

- 555 Royéna.
- 557 Hydrangéa.
- 556 Cunónia.
- 537 Triánthema.
- 558 Chryfosplénium.
- 559 Saxífraga.
- 560 Tiarélla.
- 561 Mitélla.
- 562 Scleránthus.
- 563 Gypsóphila.
- 564 Saponária.
- 565 Diánthus.

III. THREE FEMALES.

(Trigýnia.)

- 566 Cucúbalus.
- 567 Siléne.
- 568 Stellária.
- 569 Arenária.

- 570 Cherléria.
- 571 Garidélla.
- 572 Malphígia.
- 573 Banistéria.
- 569 Hiræa.
- 574 Trióptervis.
- 575 Erythróxylon.

IV. FIVE FEMALES.

(Pentagýnia.)

- 576 Avérrhoa.
- 577 Spóndias.
- 578 Cotylédon.
- 579 Sédum.
- 580 Penthorum.
- 1309 Bérgia.
- 581 Suriána.
- 1235 Griélum.
- 582 Óxalis.
- 583 Agrostemma.
- 584 Lýchnis.
- 585 Cerástium.
- 586 Spérgula.
- 1262 Forskohléa.

V. TEN FEMALES.

(Decagýnia.)

- 587 Neúrada.
- 588 Phytolacca.

TEN MALES.

(Decàndria.)

I. ONE FEMALE.

(Monogýnia.)

508. SOPHÓRA. *

CAL. *Perianth* one-leaved, short, bell'd, gibbous above at the base; the *mouth* four-tooth'd, oblique, obtuse.

COR. papilionaceous, five-petal'd.

Banner oblong, gradually broader, straight, with reflected sides.

Wings two, oblong, appendaged at the base, the length of the *Banner*.

Keel two-petal'd: the petals with uniform wings, the inferior margins approximated, boat-shape.

STAM. *Filaments* ten, distinct, parallel, awl'd, the length of the corol, concealed within the keel. *Anthers* very small, ascending.

PIST. *Germ* oblong, columnar. *Style* the size and situation of the *stamens*. *Stigma* obtuse.

PER. *Legume* very long, slender, one-cell'd, knotty at the seeds.

SEEDS very numerous, roundish.

Obs. It agrees exactly with the papilionaceous and two-brotherhood flowers, except that it has distinct and separate filaments.

509. ANAGYRYS. * *Tournef.* 647. *Stinking Bean-Trefoil.*

CAL. *Perianth* bell'd: the *mouth* five-tooth'd; with the *highest* pair more deeply divided.

COR. papilionaceous.

Banner inverse-hearted, straight, end-nick'd, broader than the rest, twice as long as the calyx.

Wings egg-oblong, flat, longer than the banner.

Keel straight, very long.

STAM. *Filaments* ten, parallel, distinct, ascending. *Anthers* simple.

PIST. *Germ* oblong. *Style* simple, ascending. *Stigma* villous.

PER. *Legume* oblong, large, rather columnar, rather reflected, obtuse.

SEEDS six or more, kidney-form.

OBS. *The essence consists in a very short straight banner; with a very long keel.*

510. CERCIS. * *Silquastrum Tournef.* 214. *Judas Tree.*

CAL. *Perianth* one-leaved, very short, bell'd, gibbous below, melliferous: the *mouth* five-tooth'd, erect, obtuse.

COR. five-petal'd, inserted into the calyx, counterfeiting a papilionaceous corol.

Wings: Petals two, bent upward, affixed with long claws.

Banner: Petal one, roundish, claw'd under the wings, than which it is shorter.

Keel: Petals two, converging to a hearted figure, including the fructification, affixed by claws.

Nectary a style-form gland, under the germ.

STAM. *Filaments* ten, distinct, awl'd, declining, four of which longer, cover'd. *Anthers* oblong, incumbent, ascending.

PIST. *Germ* line-lanced, pedicel'd. *Style* the length and situation of the stamens. *Stigma* obtuse, ascending.

PER. *Legume* oblong, obliquely pointed, one-cell'd.

SEEDS few, roundish, annexed to the superior future.

511. BAUHÍNIA. * *Plum.* 13. *Mountain Ebony.*

CAL. *Perianth* oblong, gaping longitudinally on the inferior side, reclining on the other, also gaping five ways at the base, with five cohering leaflets above, deciduous.

COR. *Petals* five, oblong, wavy, with attenuated reflected tops, expanding; the inferior ones a little larger, with the superior one more distant, all with claws sitting on the calyx.

STAM. *Filaments* ten, declining, shorter than the corol; the tenth the longest. *Anthers* egg'd, always in the tenth, seldom in the rest.

PIST. *Germ* oblong, sitting on a pedicel. *Style* thread-form, declining, *Stigma* obtuse, ascending.

PER. *Legume* long, rather columnar, one-cell'd.

SEEDS many, roundish, compress'd, placed according to the length of the legume.

OBS. B. *divaricata* (*divaricated*) & *acuminata* (*pointed*) have filaments of the Class Two-Brotherhoods in a situation contrary to the papilionaceous flowers, with a solitary stamen occupying the inferior place.

512. HYMENÆA. *Courbaril Plum.* 36. *Locust-tree.*

CAL. *Perianth* one-leaved, five-parted, unequal.

COR. papilionaceous,

Banner larger, reflected.

Wings lanced, small.

Keel awl'd, longer than the wings, ascending.

STAM. *Filaments* ten,

PIST. *Germ* oblong.

PER. *Legume* very large, egg-oblong, obtuse, one-cell'd, replete with a ferinaceous pulp.

SEEDS many, egg'd, involved in meal and fibres.

OBS. The Author calls the *Petals* five subequal. *Syst. Veg.* p. 326. R.

513. PARKINSONIA. † *Plum.* 3. *Jacq. amer.*
121.

CAL. *Perianth* five-leaved, sitting on the bell'd receptacle, expanding: the leaflets egg'd, acute, colour'd, deciduous.

COR. *Petals* five, claw'd, subequal, most expanded, egg'd; with the lowest kidney-form.

STAM. *Filaments* ten, declining. *Anthers* oblong, incumbent.

PIST. *Germ* columnar, long, declining. *Style* thread-form, ascending, the length of the stamens. *Stigma* obtuse.

PER. *Legume* very long, columnar, protuberant at the seeds, whence it is necklace-form, pointed.

SEEDS many, one within each joint of the legume, oblong, rather columnar, obtuse.

OBS. *There is no Style.* *Syst. Veg.* p. 426. R.

514. CASSIA. * *Tournef.* 392. *Senna Tournef.* 390.
Wild Senna.

CAL. *Perianth* five-leaved, loose, concave, colour'd, deciduous.

COR. *Petals* five, roundish, concave: the inferior ones more distant, more expanded, larger.

STAM. *Filaments* ten, declining: the three inferior ones longer; three superior shorter. *Anthers* the three inferior very large, bow'd, beaked, gaping at the top; the four lateral ones without a beak, gaping: three highest ones very small, sterile.

PIST. *Germ* columnarish, long, peduncled. *Style* very short. *Stigma* obtuse, ascending.

PER. *Legume* oblong, with transverse partitions.

SEEDS many, roundish, affixed to the superior suture.

OBS. *In Cassia T. the Legume is oblong with intire partitions.*
In Senna T. the Legume is gibbous, infected.

515. POINCIANA. † *Tournef.* 391. *Barbadoes*
Flower-fence.

- CAL. *Perianth* five-leaved, loose, oblong, concave, deciduous: the lowest *leaflet* longer, declining, vaulted.
- COR. five-petal'd, unequal. *Petals* four, roundish, subequal; the fifth highest, larger, not uniform, notch'd.
- STAM. *Filaments* ten, bristly, longest of all, declining: with the highest pedicel'd. *Anthers* oblong, incumbent.
- PIST. *Germ* awl'd, declining, longer, ending in a *Style* the length of the *stamens*. *Stigma* obtuse.
- PER. *Legume* compress'd, oblong, with partitions as it were transverse.
- SEEDS many, flat-compress'd, rather egg'd.

1390. MYRÓXYLON. S. *Perfume-wood.*

- CAL. *Perianth* one-leaved, bell'd, five-tooth'd, permanent. *Teeth* very small, very obscure.
- COR. *Petals* five, inserted into the receptacle, unequal, irregular, claw'd. *Claws* narrow, linear, the length of the calyx. *Fold of the superior Petal* broader, reflected, egg'd, inverse-hearted. *Folds of the rest of the Petals* narrow-lanced, straight, scarcely expanding.
- STAM. *Filaments* ten, appress'd to the germ, the length of the calyx, thread-form, smooth. *Anthers* naked on the outside the calyx, erect, lanced, ploughed with a furrow, terminated by a short point.
- PIST. *Germ* above, longer than the flower, hanging out of the flower, scymetar-form, compress'd. *Style* ascending, short, thread-form. *Stigma* obtuse, simple.
- PER. *Legume* sword-form, narrowed at the base, dilated towards the top, rounded, yet every where two-edg'd, smooth, one-seeded.
- SEED one, rounded, compress'd, in the top of the legume.

516. CÆSALPÍNIA. † *Plum.* 9. *Brafiletto.*

CAL. *Perianth* five-cleft, pitcher'd: with the inferior lobe very large.

COR. *Petals* five, subequal: with the lowest one more beautifully colour'd.

STAM. *Filaments* thread-form, incurved, decumbent towards the larger division. *Anthers* simple.

PIST. *Germ* slender, oblong. *Style* simple, the length of the stamens. *Stigma* headed.

PER. *Legume* oblong, rhombed, pointed, one-cell'd.

SEEDS very numerous, rhombed.

517. GUILANDÍNA. † *Bonduc Plum.* 39.
Nickar-tree.

CAL. *Perianth* one-leaved, salver-form: the *Border* five-parted, equal, expanding.

COR. *Petals* five, lanced, concave, sessile, subequal, inserted into the neck of the calyx, a little larger than the calyx.

STAM. *Filaments* ten, awl'd, erect, inserted into the calyx, and shorter than it: the alternate ones less. *Anthers* obtuse, incumbent.

PIST. *Germ* oblong. *Style* thread-form, the length of the stamens. *Stigma* simple.

PER. *Legume* rhomboidal, with the superior suture convex, belly-compress'd, one-cell'd, mark'd with the transverse partitions.

SEEDS bony, globe-compress'd, solitary between the partitions.

OBS. *Some species of this genus are two-house; are there not many?*

S. *Moringa* is polygamous, and the fruit different from the genus of *Guilandina*, that a new genus seems to be indicated. Lin. R,

518. GUAÍACUM. † *Plum.* 9.

CAL. *Perianth* five-leaved, concave: the *leaflets* egg-oblong: with the two exterior ones less.

COR. *Petals* five, egg-oblong, concave, expanding, inserted into the calyx, with linear claws.

STAM. *Filaments* ten, erect. *Anthers* oblong.

PIST. *Germ* wedge-form, angular, subpedicel'd. *Style* short. *Stigma* simple, acute.

PER. *Fruit* angular: with compress'd angles; three-or-five-cell'd.

SEEDS *Nuts* solitary, hard.

519. CY-

519. CYNOMÉTRA. *Cynomorium. Garc.*

CAL. *Perianth* four-leaved, oblong, reflected, the length of the corol.

COR. *Petals* five; lanced, equal, acute.

STAM. *Filaments* ten, twice as long as the corol. *Anthers* oval, two-cleft at the top.

PIST. *Germ* boat-form. *Style* thread-form, the length of the stamens, *Stigma* simple.

PER. *Legume* moon'd, compress'd, fleshy, tubercled.

SEED one, kidney-form, large.

1285. CÓDON. *Austore Cl. Dau. Royeno.*

CAL. *Perianth* one-leaved, ten-parted: the *leaflets* awl'd, permanent, erectish; the alternate ones shorter.

COR. one-petal'd, bell'd, wreathed at the base: the *Border* ten-parted, equal.

Nectary ten-cell'd, from ten scales, inserted into the claws of the stamens, converging, covering the receptacle.

STAM. *Filaments* ten, the length of the corol. *Anthers* thick.

PIST. *Germ* above, conic. *Style* simple, the length of the stamens. *Stigmas* two, long, bristly, diverging.

PER. two-cell'd.

SEEDS many, roundish, shaggy, in a colour'd juiceless pulp.

522. DICTÁMNUS. * *Fraxinella Tournef. 243.*
Fraxinella.

CAL. *Perianth* five-leaved, very small, deciduous: the *leaflets* oblong, pointed.

COR. *Petals* five, egg-lanced, pointed, claw'd, unequal: of which two are bent upward: two placed obliquely at the sides; one deflected.

STAM. *Filaments* ten, awl'd, the length of the corol, declining between the two lateral petals, unequal. *Glands* dot-form scattered'd on the filaments. *Anthers* four-corner'd, ascending.

PIST. *Germ* five-angled, elevated on the receptacle. *Style* simple, short, declining, incurved. *Stigma* acute, ascending.

PER. *Capsules* five, inwardly coalesced on the margin, compressed, pointed, with distant tops, two-valved.

SEEDS two, egg'd, very smooth, within the common two-valv'd, gash'd *Aril*.

523. RUTA. * *Tournef.* 133. *Pseudo-Ruta Mich.*
19. *Rue.*

CAL. *Perianth* five-parted; short, permanent.

COR. *Petals* expanding, five, rather egg'd, concave, with narrow *claws*.

STAM. *Filaments* ten, awl'd, expanding, the length of the corol, broadish at the base. *Anthers* erect, very short.

PIST. *Germ* gibbous, engraved with a cross, surrounded at the base with ten melliferous points, elevated on the receptacle which is pierced with ten melliferous pores. *Style* erect, awl'd. *Stigma* simple.

PER. *Capsule* gibbous, five-lobed, half-fivecleft, five-cell'd, gaping five ways between the tops.

SEEDS most numerous, rugged, kidney-form, angular.

OBS. *R. graveolens* (*strong-smelling*) loses in the flowers, except the first, one fifth part of the number in every part of the fructification, and has petals fringed at the base.

524. TOLUÍFERA. † *Roy. Balsam of Tolu-Tree.*

CAL. *Perianth* one-leaved, bell'd, five-tooth'd, subequal: with one angle more remote.

COR. *Petals* five, inserted into the receptacle: of which four are equal, linear, a little longer than the calyx; the fifth twice as large, inverse-hearted, with a claw the length of the calyx.

STAM. *Filaments* ten, very short. *Anthers* longer than the calyx.

PIST. *Germ* oblong. *Style* none. *Stigma* acute.

PER.

SEEDS

525. HÆMATÓXYLUM. † (*Blood-wood*) *Log-wood*.

CAL. *Perianth* five-parted: the *divisions* egg'd, permanent.
 COR. *Petals* five, egg'd, equal, rather larger than the calyx.
 STAM. *Filaments* ten, awl'd, rather longer than the corol. *Anthers* small.

PIST. *Germ* egg-oblong. *Style* simple, the length of the *stamens*.
Stigma thickish, end-nick'd.

PER. *Capſule* lanced, obtuse, one-cell'd, two-valved: with boat-shape *valves*.

SEEDS few, oblong, compress'd.

Obs. Rottboell has thus exhibited the character of the genus after the most perfect flowers. *Collect. med. Haun.* 2. p. 254.

Perianth one-leaved, compress'd, colour'd. *Tube* very short, pitcher'd, fleshy, permanent. *Border* five-parted: the *divisions* concave, inverse-egg'd, deciduous.

Petals five, line-lanced, veined, longer by a third than the calyx.

Stamens, *Filaments* ten, flat, awl'd, with the inferior half bearded within, longer than the corol. *Anthers* small, moon-leted.

Germ lance-oblong, compress'd. *Style* capillary, winding, longer than the *stamens*. *Stigma* headed, end-nick'd.

Pericarp (of the *Fraxinus*) line-oblong, compress'd, standing on the tube of the calyx. R.

1260. PROSÓPIS.

CAL. *Perianth* one-leaved, hemispheric, rather four-tooth'd.

COR. *Petals* five, lanced, sessile, equal.

STAM. *Filaments* ten, thread-form, equal. *Anthers* twin, obtuse.

PIST. *Germ* oblong. *Style* thread-form, the length of the *petals*.
Stigma simple.

PER. *Legume* long, inflated, one-cell'd.

SEEDS many, oblong-rounded, colour'd.

1261. CHÁL-

1261. CHALCAS.

CAL. *Perianth* five-parted, very small: the *leaflets* awl'd, erect, permanent.

COR. five-petal'd, bell'd. *Petals* oblongish, largish, sitting on the claws.

STAM. *Filaments* ten, awl'd, erect, shorter than the corol. *Anthers* roundish.

PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigma* wart-headed.

PER. *Berry* oblong. Rumph.

SEEDS two, downy.

OBS. Is it allied to *Trichogamila* Brown?

1341. MURRAYA. Authore D. Kænigio.

CAL. *Perianth* one-leaved, five-parted, very small: the *divisions* linear, erect, columnarish, remote, permanent.

COR. five-petal'd, bell'd: the *petals* lanced, spreading at the top. *Nectary* bell'd, short, surrounding the germ.

STAM. *Filaments* ten, awl'd, the length of the flower. *Anthers* oblongish.

PIST. *Germ* roundish, above. *Style* thread-form, subangular, longer than the stamens. *Stigma* flattish, warty, angular.

PER. *Berry* subpulpy, one-cell'd.

SEED one, large, inverse-egg'd, acute, furrow'd on one side.

BERGÉRA. Authore D. Kænigio.

CAL. *Perianth* five-parted, very small, acute, expanding, permanent.

COR. *Petals* five, oblong, obtusish, expanding.

STAM. *Filaments* ten: the five alternate ones shorter. *Anthers* roundish.

PIST. *Germ* roundish, above. *Style* thread-form, club'd. *Stigma* top-shape, glossy, with transverse furrows.

PER. *Berry* subglobular, one-cell'd.

SEEDS two.

526. ADENANTHÉRA. * (*Gland-anther*) Roy.
lugdb. p. 462. False
Flower-fence.

CAL. *Perianth* one-leaved, five-tooth'd, very small.

COR. five-petal'd, bell'd: *Petals* lanced, sessile, convex within, concave under.

STAM *Filaments* ten, awl'd, erect, rather shorter than the corol. *Anthers* roundish, incumbent, bearing a globular gland on the exterior top.

PIST *Germ* oblong, gibbous downwards. *Style* awl'd, the length of the stamens. *Stigma* simple.

PER. *Legume* long, compress'd, membranous.

SEEDS very numerous, roundish, remote.

528. TRICHÍLIA. † *Brown. p. 279. Læf. 188.*

CAL. *Perianth* one-leaved, tubular, rather five-tooth'd, short.

COR. *Petals* five, lanced, expanding.

Nectary cylindric, tubular: (the *mouth* five-tooth'd,) shorter than the petals, constructed from ten filaments.

STAM. *Filaments* none. *Anthers* ten, erect, ascending from the margin of the tube of the nectary, deciduous.

PIST. *Germ* inverse-egg'd, rather three-lobed. *Style* short. *Stigma* headed, three-tooth'd.

PER. *Capsule* roundish, rather three-corner'd, three-cell'd, three-valv'd.

SEEDS solitary, aril-betried.

1306. TURRÆA. †

CAL. *Perianth* one-leav'd, bell'd, five-tooth'd, very small, permanent.

COR. *Petals*, five, linear, expanding, long.

Nectary: *Tube* cylindric, the length of the petals: with a ten-cleft mouth.

STAM. *Filaments* ten, within the mouth of the nectary, very short. *Anthers* rather egg'd.

PIST. *Germ* roundish. *Style* thread-form, the length of the nectary. *Stigma* thickish, wrinkled.

PER. *Capsule* roundish, five-grain'd: with valvelets gaping longitudinally.

SEEDS two, kidney-form.

Obs. The Corols of *Melia*, *Swietenia*, *Trichilia* are very similar to this.

521. SWI-

521. SWIETENIA. *Jacq. amer. 127. Mahogany tree.*

CAL. *Perianth* one-leaved, five-cleft, obtuse, very small, deciduous.

COR. *Petals* five, inverse-egg'd, obtuse, concave, expanding.

Nectary one-leaved, cylindric, the length of the petals: with a ten-tooth'd mouth.

STAM. *Filaments* ten, most minute, inserted beneath the teeth of the nectary. *Anthers* oblong, erect.

PIST. *Germ* egg'd. *Style* awl'd, erect, the length of the nectary. *Stigma* headed; flat.

PER. *Capitula* egg'd, large, woody, five-cell'd, five-valved: with valvelets gaping at the base.

SEEDS very numerous, imbricated, compress'd, oblong, obtuse, increased by a leafy wing. *Receptacle* large, five-angled.

OBS. *Allied to Cedrela on account of its fruit.*

527. MELIA. *Bead-tree.*

CAL. *Perianth* one-leav'd, very small, five-tooth'd, erect, obtuse.

COR. *Petals* five, line-lanced, expanding, long.

Nectary cylindric, one-leaved, the length of the corol: with a ten-tooth'd mouth.

STAM. *Filaments* ten, very small, inserted within the top of the nectary. *Anthers* not surpassing the nectary, oblong.

PIST. *Germ* conic. *Style* cylindric, the length of the nectary. *Stigma* headed: with five converging valvelets.

PER. *Drupe* globular, soft.

SEED *Nut* roundish, five-furrow'd, five-cell'd.

530. ZYGOPHYLLUM. * (*Leaf-pair'd*) Fabago
 Tournef. 135. *Bean-Caper*.

CAL. *Perianth* five-leaved: the *leaflets* egg'd, obtuse, concave, erect.

COR. *Petals* five, gradually broader, obtuse, end-nick'd, rather longer than the calyx.

Nectary ten-leaved, converging, including the germ: with a leaflet or scale adjoined to each filament near the base, pointed, converging.

STAM. *Filaments* ten, awl'd, shorter than the corol. *Anthers* oblong, incumbent.

PIST. *Germ* oblong, attenuated at the base. *Style* awl'd, the length of the stamens. *Stigma* simple.

PER. *Capsule* egg'd, five-corner'd, five-cell'd, five-valved, with partitions adhering to the valvelets themselves.

SEEDS many, roundish, compress'd.

OBS. The figure of the Pericarp occurs different in different species. There is a species which excludes a fifth part of its number.

Z. album (white) is furnished with five stigmas. R.

529. QUASSIA. † *Amaen. accad. VI. monographia*.

CAL. *Perianth* five-leaved, very short: the *leaflets* egg'd, permanent.

COR. *Petals* five, lanced, elongated, sessile, equal.

Nectary with five scales, egg'd, villous, inserted into the interior base of the filaments.

STAM. *Filaments* ten, thread-form, equal, the length of the corol. *Anthers* oblong, incumbent.

PIST. *Receptacle* fleshy, orbicular, elevated, broader than the germ. *Germ* egg'd, composed of five. *Style* thread-form, the length of the stamens. *Stigma* simple.

PER. five, lateral, distant, inserted into the fleshy orbicular receptacle, egg'd, obtuse, two-valved.

SEEDS solitary, globular.

OBS. Is not *Quassia two-house*, ten-male. Lin. R.

531. FAGÓNIA. * *Tournef.* 141.

CAL. *Perianth* five-leaved: the *leaflets* lanced, erect, spreading, very small, deciduous.

COR. *Petals* five, hearted, expanding: the *claws* long, slender, inserted into the calyx.

STAM. *Filaments* ten, awl'd, erect, longer than the calyx. *Anthers* roundish.

PIST. *Germ* five-angled. *Style* awl'd. *Stigma* simple.

PER. *Capsule* round-pointed, five-cell'd, five-lobed, ten-valved, with compress'd cells.

SEEDS solitary, roundish.

532. TRIBULUS. * *Tournef.* 141. *Caltrops.*

CAL. *Perianth* five-parted, acute, rather shorter than the corol.

COR. *Petals* five, oblong, obtuse, expanding.

STAM. *Filaments* ten, awl'd, very small. *Anthers* simple.

PIST. *Germ* oblong, the length of the stamens. *Style* none. *Stigma* headed.

PER. roundish, prickly, from *Capsules* five or ten, on one side gibbous, often armed with three or four daggers; on the other angular, converging with transverse cells.

SEEDS many, top-shape, oblong.

T. Cistoides has ten wrinkled fruits without lateral thorns.

533. THRYÁLLIS. †

CAL. *Perianth* five-parted: the *divisions* lanced, erect, permanent.

COR. *Petals* five, roundish, expanding.

STAM. *Filaments* ten, awl'd, longer than the calyx. *Anthers* roundish.

PIST. *Germ* obtuse. *Style* thread-form, the length of the stamens. *Stigma* simple.

PER. *Capsule* three-sided, triangular, obtuse, three-partible: with cells gaping in the exterior angle.

SEEDS solitary, most smooth, inverse-egg'd, obtuse at the base, dagger-incurved.

534. LIMÓNIA.

CAL. *Perianth* five-parted, very small.

COR. *Petals* five, equal, expanding.

STAM. *Filaments* ten. *Anthers* thick.

PIST. *Germ* roundish. *Style* cylindric, short. *Stigma* thickish.

PER. *Berry* subglobular, three-cell'd.

SEEDS solitary.

536. MONÓTROPA. * *Orobanchoides Tournef.*

A. G. 1770. *Hypopitys*

Dill. gen. 7. Simplicity.

CAL. none, (unless you esteem the five exterior *Petals* a coloured calyx.)

COR. *Petals* ten, oblong, parallel-erect, saw'd at the tops, deciduous, of which the *alternate exterior ones* are gibbous at the base, inwardly concave, melliferous.

STAM. *Filaments* ten, awl'd, erect, simple. *Anthers* simple.

PIST. *Germ* roundish, pointed. *Style* cylindric, the length of the *stamens*. *Stigma* obtuse-headed.

PER. *Capsule* egg'd, five-corner'd, obtuse, five-valved.

SEEDS numerous, chaffy.

OBS. *Such is the terminal flower; but if there are lateral flowers, they exclude one fifth part of the number in every part of the fructification.*

1307. DIONÆA. † (*Venus*) *Autore Ellisio. Fly-trap.*

CAL. *Perianth* five-leaved, erect: the *leaflets* oblong, acute, permanent.

COR. *Petals* five, sessile, oblong, obtuse, concave.

STAM. *Filaments* ten, awl'd, shorter. *Anthers* roundish, with three-grain'd meal.

PIST. *Germ* roundish, depress'd, notch'd. *Style* thread-form, shorter than the *filaments*. *Stigma* expanding, fringed on the margin.

PER. *Capsule* one-cell'd, gibbous.

SEEDS very numerous, rather egg'd, very small, affixed to the base of the capsule.

538. JUSSIÉUA. *

CAL. *Perianth* five-cleft, above, small: the *leaflets* egg'd, acute, permanent.

COR. *Petals* five, roundish, expanding, sessile.

STAM. *Filaments* ten, thread-form, very short. *Anthers* roundish.

PIST. *Germ* oblong, beneath. *Style* thread-form. *Stigma* headed, flat, marked with five streaks.

PER. *Capsule* oblong, crown'd, five-cell'd, gaping with angles.

SEEDS very numerous, disposed by rows.

OBS. *There are species which are exempt from a fifth part of the number.*

535. HEISTÉRIA. *Jacq. amer.* 126.

CAL. *Perianth* one-leaved, bell'd, five-cleft, acute, small, permanent.

COR. *Petals* five, egg'd, acute, concave, expanding.

STAM. *Filaments* ten, egg'd, acute, flat, erect: the alternate ones shorter. *Anthers* roundish.

PIST. *Germ* roundish, depress'd. *Style* erect, short. *Stigma* four-cleft, obtuse.

PER. *Drupe* oblong, with the top depress'd, sitting on the colour'd very large calyx.

SEED *Nut* oval, obtuse.

OBS. *Allied to Laurus.*

539. QUISQUÁLIS. †

CAL. *Perianth* thread-form, very long, tubular, with a five-cleft expanded mouth, deciduous.

COR. *Petals* five, inserted into the throat of the calyx, sessile, oblong, obtuse, expanding, larger than the border of the calyx.

STAM. *Filaments* ten, bristly, inserted into the throat of the calyx, of which five are inferior. *Anthers* in the throat of the calyx.

PIST. *Germ* egg'd. *Style* thread-form, longer than the stamens. *Stigma* obtuse, broader.

PER. *Drupe* dry, five-angled.

SEED *Nut* roundish.

540. DAIS.

540. DAÏS. † *Authore Dau. Royeno.*

CAL. *Involucre* four-leaved, sessile-maniflowered; the *leaflets* parch'd, erect.

Perianth none.

COR. one-petal'd, funnel-form, longer than the involucre.
Tube thread-form, rude. *Border* five-cleft; the *divisions* lanced, obtuse.

STAM. *Filaments* ten, inserted into the throat, shorter than the border: the alternate ones shorter. *Anthers* simple.

PIST. *Germ* oblongish, growing on the base of the corol. *Style* thread-form, the length of the tube. *Stigma* globular, ascending.

PER. *Berry*.

SEED one.

Obs. *There is a species in which the fifth part of the number is deficient.*
 R.

544. MELASTOMA. † *Burm. (Black-mouth.)*
Acinodendron edit. prior.
 363.

CAL. *Perianth* one-leaved, bell'd, five-cleft, obtuse, permanent.

COR. *Petals* five, roundish, inserted into the throat of the calyx.
Nectary with five scales, one under each filament.

STAM. *Filaments* ten, inserted into the calyx, shorter: some of these in the middle are furnished with a process, as if retrofracted.
Anthers long, subcurved, erect.

PIST. *Germ* roundish, obvolvute in the calyx. *Style* thread-form, straight. *Stigma* obtuse.

PER. *Berry* five-cell'd, obvolvute in the calyx, roundish, crowned with a cylindric margin.

SEEDS very numerous, nestling.

Obs. *M. discolor (discolour'd) loses one fifth from the fructification.*
M. octandæ (eight-male) also loses one fifth in the fructification?
 R.

545. KÁLMIA. † *Dwarf American Laurel.*

CAL. *Perianth* five-parted, small, permanent: the segments nearly egg'd, acute, columnarish.

COR. one-petal'd, salver-funnelform. *Tube* cylindric, longer than the calyx. *Border* with a flat disk, the edge erect, five-cleft; *Nectary-bearing Hornlets* ten, prominent without from the corol, and surrounding the corol, where the circumference of the border is erected.

STAM. *Filaments* ten, awl'd, erect-expanded, rather shorter than the corol, inserted into the base of the corol. *Anthers* simple.

PIST *Germ* roundish. *Style* thread-form, longer than the corol, declining. *Stigma* obtuse.

PER. *Capsule* subglobular, depress'd, five-cell'd, five-valved.

SEEDS numerous.

OBS. *The horned Nectaries outwardly prominent from the Petal, surrounding the corol abundantly distinguish this genus from the two-horn'd ones.*

546. LÉDUM. * *Marsh Rosemary.*

CAL. *Perianth* one-leaved, very small, five-tooth'd.

COR. *Petals* five, egg'd, concave, expanding.

STAM. *Filaments* ten, thread-form, expanding, the length of the corol. *Anthers* oblong.

PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigma* obtuse.

PER. *Capsule* roundish, five-cell'd, gaping five-ways at the base.

SEEDS numerous, oblong, narrow, acute at both ends, very slender.

OBS. *The calyx is said to be five-cleft, the corol flat, five-parted. Syst. Veg. p. 337. R.*

548. RHODODENDRUM. † (*Rose-wood*) Chamærhododendros Tournef. 373.
Dwarf Rose-Bay.

CAL. *Perianth* five-parted, permanent.

COR. one-petal'd, wheel-funnelform: the *Border* expanding: with rounded *divisions*

STAM. *Filaments* ten, thread-form, nearly the length of the corol, declining. *Anthers* oval.

PIST. *Germ* five-corner'd, retuse. *Style* thread-form, the length of the corol. *Stigma* obtuse.

PER. *Capsule* egg'd, subangular, five-cell'd.

SEEDS numerous, very small.

549. ANDRÓMEDA. * *Ledum Mich.* 106. Chamædaphne Buxb. A. R. Poliofolia Buxb. A. R. Ericæ species Tournef. 373. B. Marsh-Cistus.

CAL. *Perianth* five-parted, acute, very small, colour'd, permanent.

COR. one-petal'd, bell'd, five-cleft: with reflected *divisions*.

STAM. *Filaments* ten, awl'd, shorter than the corol, scarcely affixed to the corol. *Anthers* two-horned, nodding.

PIST. *Germ* roundish. *Style* cylindric, longer than the stamens, permanent. *Stigma* obtuse.

PER. *Capsule* roundish, five-corner'd, five-cell'd, five-valved, gaping with angles.

SEEDS very numerous, roundish, glossy.

OBS. It differs in number from Erica.

The Corol in some is egg'd, in others perfectly bell'd.

The Anthers are either beardless or awn'd.

A. daboecia (formerly Erica Daboecii) loses a fifth part of the number of the fructification.

550. EPIGÆA. † *Memecylum Mitch.* 13. *Trailing Arbutus.*

CAL. *Perianth* double, approximated, permanent.

P. exterior three-leaved: the *leaflets* egg-lanced, pointed: the exterior one larger.

P. interior five-parted, erect, rather longer than the exterior: the *leaflets* lanced, pointed.

COR. one-petal'd, salver-form. *Tube* cylindric, rather longer than the calyx, shaggy within. *Border* expanding, five-parted: with egg-oblong lobes.

STAM. *Filaments* ten, thread-form, the length of the tube, affixed to the base of the corol. *Anthers* oblong, acute.

PIST. *Germ* globular, villous. *Style* thread-form, the length of the stamens. *Stigma* obtuse, nearly five-cleft.

PER. *Capsule* subglobular, depress'd, five-corner'd, five-cell'd, five-valved.

SEEDS very numerous, roundish. *Rec.* large, five-parted.

551. GAULTHERIA. † *Kalm.*

CAL. *Perianth* double, approximated, permanent.

P. exterior two-leaved, shorter: the *leaflets* half-egg'd, concave, obtuse.

P. interior one-leaved, five-cleft, bell'd: with half-egg'd segments.

COR. one-petal'd, egg'd, half-fivecleft: the *border* small, revolute.

Nectary with ten corpuscles, awl'd, erect, very short, surrounding the germ within the stamens.

STAM. *Filaments* ten, awl'd, incurved, shorter than the corol, inserted into the receptacle. *Anthers* two-horn'd: the hornlet two-cleft.

PIST. *Germ* roundish, depress'd. *Style* cylindric, the length of the corol. *Stigma* obtuse.

PER. *Capsule* roundish, obtusely five-corner'd, depress'd, five-cell'd, five-valved, every where cover'd with the interior *Perianth* transformed and growing out into a *Berry*, which is roundish'd, colour'd, pervious at the top.

SEEDS very numerous, nearly egg'd, angular, bony.

552. ARBUTUS. * *Tournef.* 368. *Uva Urſi Tournef.* 370. *Strawberry tree.*

- CAL. *Perianth* five-parted, obtuse, very small, permanent.
 COR. one-petal'd, egg'd, flattish at the base, diaphanous, with a five-cleft mouth: the *divisions* obtuse, revolute, small.
 STAM. *Filaments* ten, awl-bellied, very slender at the base, affixed to the margin of the base of the corol, shorter by half than the corol. *Anthers* slightly two-cleft, nodding.
 PIST. *Germ* subglobular, sitting on the receptacle marked with ten dots. *Style* cylindric, the length of the corol. *Stigma* thickish, obtuse.
 PER. *Berry* roundish, five-cell'd.
 SEEDS small, bony.
 OBS. *It approaches very nearly to Vaccinium, from which it is distinguished by the fruit above.*
Arbutus T. has many-seeded cells,
Uva Urſi T. has one-seeded cells.

553. INOCARPUS. *Forst. gen. n. 33. S.*

- CAL. *Perianth* one-leaved, two-cleft: *Divisions* oblong, obtuse equal.
 COR. one-petal'd, tubular. *Tube* cylindric, longer than the calyx. *Border* five-parted, longer than the tube. *Divisions* reflected, undulating, linear.
 STAM. *Filaments* ten, very short, inserted into the tube, in a double series towards the throat. *Anthers* egg'd.
 PIST. *Germ* above, oblong, villous. *Style* none. *Stigma* simple.
 PER. *Drupe* egg'd, large, compress'd, incurved, one-seeded.
 SEED *Nut* consisting of woody interwoven fibres.
Nucleus oval, compress'd.

553. CLE-

553. CLÉTHRA. * Gronov. virg. 43.

CAL. *Perianth* one-leaved, five-parted; the *leaflets* egg'd, concave, erect, permanent.

COR. *Petals* five, oblong, broader without, erect-expanded, rather longer than the calyx: the superior one broader.

STAM. *Filaments* ten, awl'd, the length of the corol. *Anthers* oblong-erect, gaping at the top.

PIST. *Germ* roundish. *Style* thread-form, erect, permanent, increasing. *Stigma* three-cleft.

PER. *Capsule* roundish, obvolute in the calyx, three-cell'd, three-valved.

SEEDS very numerous, angular.

554. PÝROLA. Tournef. 134. Winter-green.

CAL. *Perianth* five-parted, very small, permanent.

COR. *Petals* five, roundish, concave, expanding.

STAM. *Filaments* ten, awl'd, shorter than the corol. *Anthers* nodding, large, two-horn'd upwards.

PIST. *Germ* roundish, angular. *Style* thread-form, longer than the stamens, permanent. *Stigma* thickish.

PER. *Capsule* roundish, depress'd, five-corner'd, five-cell'd, gaping in the angles.

SEEDS numerous, chaffy.

OBS. The Stamens and Style in some are erect, in others declining to one side, in others expanding.

The figure of the Stigma is different in different species.

546. STYRAX. * *Tournef.* 369. *Storax-tree.*

- CAL. *Perianth* one-leaved, cylindric, erect, short, five-tooth'd.
 COR. one-petal'd, funnel-form. *Tube* short, cylindric, the length of the calyx. *Border* five-parted, large, expanding: with lanceol'd, obtuse divisions.
 STAM. *Filaments* ten, erect, placed in an orb, scarcely coalesced at the base, awl'd, inserted into the corol. *Anthers* oblong, straight.
 IST. *Germ* above. *Style* simple, the length of the stamens. *Stigma* lop'd.
 PER. *Drupe* roundish, one-cell'd.
 SEEDS *Nuts* two, roundish, pointed, convex on one-side, flat on the other.
 OBS. *The number of stamens varies, but the natural one is ten. It is a different plant from Halesia.*

543. SAMYDA. * *Læfl. Jacq. amer.* 132. *Casearia.*
Jacq. amer. 132.

- CAL. *Perianth* one-leaved, bell'd, five-parted, colour'd, expanding, permanent.
 COR. none.
Nectary with five scales (or a lop'd cone) surrounding the receptacle, two-parted: the *divisions* linear, obtuse, shorter by half than the calyx.
 STAM. *Filaments* about ten, awl'd, erect, rather shorter than the calyx: of these the alternate ones are inserted into the bosom of the nectary; the alternate ones into the gashes of the calyx. *Anthers* roundish.
 IST. *Germ* egg'd. *Style* thread-form, the length of the stamens. *Stigma* globular, pubescent.
 PER. *Capsule* roundish, berried within, one-cell'd, three or four-valved.
 SEEDS many, berried.
 OBS. *The number of the fructification in this genus is inconstant.*
S. nitida (glossy) & spinosa (thorny) are eight-male with a four-valved capsule.
Pubescens (pubescent) & ferrulata (sawleted) are ten-male with a five-valved capsule.
Parviflora (small-flower'd) has a one-leaved lop'd nectary.

542. COPAÍFERA. Copaiva. *Jacq. amer.* 133.

CAL. none.

COR. *Petals* four, oblong, acute, concave, most expanded.STAM. *Filaments* ten, thread-form, incurved, rather longer than the corol. *Anthers* oblong, incumbent.PIST. *Germ* roundish, flat-compress'd, pedicel'd. *Style* thread-form incurved, the length of the stamens. *Stigma* obtuse.PER. *Legume* egg'd, two-valved, dagger'd with part of the *Style*.

SEED one, egg'd, involved in the berried aril.

541. BUCÍDA. Buceras. *Brown. t. 23. f. 1.*CAL. *Perianth* one-leaved, bell'd, obscurely five-tooth'd, above permanent.

COR. none.

STAM. *Filaments* ten, capillary, inserted into the base of the calyx longer than the calyx. *Anthers* hearted, erect.PIST. *Germ* beneath, egg'd. *Style* thread-form, the length of the stamens. *Stigma* obtuse.PER. *Berry* dry, egg'd, one-cell'd, crown'd with the calyx.

SEED one, egg'd.

II. TWO FEMALES.

(Digynia.)

555. ROYÉNA. * *African Bladder-nut.*CAL. *Perianth* one-leaved, pitcher'd, five-cleft, permanent.COR. one-petal'd. *Tube* the length of the calyx. *Border* expanding revolute, five-parted: with egg'd divisions.STAM. *Filaments* ten, very short, adjoined to the corol. *Anthers* oblong, acute, twin, erect, the length of the tube.PIST. *Germ* egg'd, ending in two *Styles* rather longer than the calyx. *Stigma* simple.PER. *Capsule* egg'd, four-furrow'd, one-cell'd, four-valved.SEEDS *Nuts* four, oblong, triangular, obvolute in the aril.

557. HY

557. HYDRANGÆA. † Gronov.

- CAL. *Perianth*, one-leaved, five-tooth'd, permanent, small.
 COR. *Petals* five, equal, roundish, larger than the calyx.
 STAM. *Filaments* ten, longer than the corol, of these the alternate ones longer. *Anthers* roundish, twin.
 PIST. *Germ* roundish, beneath. *Styles* two, short, distant. *Stigmas* obtuse, permanent.
 FR. *Capsule* roundish, twin, two beak'd with a double style, angled with very numerous nerves, crown'd with the calyx, two-cell'd, with a transverse partition, gaping with a hole between the horns.
 SEEDS numerous, angular, pointed, very small.
 OBS. The Capsule is circumcised. *Syst. Veg.* p. 342.

556. CUNÓNIA. Oosterdykia. *Burm. af. t.* 96.

- CAL. *Perianth* five-leaved, very small: the leaflets egg'd, concave, acute.
 COR. *Petals* five, inverse-egg'd, expanding, sessile.
 STAM. *Filaments* ten, awl'd, the length of the corol. *Anthers* roundish, twin.
 PIST. *Germ* conic. *Styles* two, awl'd, longer than the corol. *Stigmas* obtuse.
 FR. *Capsule* oblong, pointed, two-cell'd.
 SEEDS very numerous, roundish.

537. TRI-

537. TRIANTHEMA. * *Sauv.* (*Three-flowers.*)
 127. *Portulacastrum Jusseui.*
Horse Purslane.

- CAL. *Perianth* five-leaved: the *leaflets* oblong, colour'd within, dagger'd under the top, permanent.
- COR. none, unless you so name the calyx, as if constructed of the corol and calyx.
- STAM. *Filaments* ten, (in some from 5 to 12) capillary, the length of the calyx. *Anthers* roundish.
- PIST. *Germ* rather above, oblongish, retuse, *Styles* 1 or 2, thread-form, the length of the stamens, hispid on one side. *Stigmas* simple.
- PER. *Capsule* oblong, retuse-lop'd, circumcised; the *Cells* two superior, and two inferior.
- SEEDS solitary, or two, rather egg'd.
- OBS. *The number of stamens and styles in distinct species is different.*

558. CHRYSOSPLÉNÍUM. * *Tournef.* 60.
Golden Saxifrage.

- CAL. *Perianth* four-parted, or five-parted, expanding, colour'd, permanent: with egg'd *divisions*: the opposite ones narrower.
- COR. none: unless you so name the colour'd calyx.
- STAM. *Filaments* eight or ten, awl'd, erect, very short, placed on the angular receptacle. *Anthers* simple.
- PIST. *Germ* beneath, ending in two *styles*, awl'd, the length of the stamens. *Stigma* obtuse.
- PER. *Capsule* two-beaked, two-parted, one-cell'd, two-valved, surrounded with the green calyx.
- SEEDS very numerous, very small.
- OBS. *The terminal flower is five-cleft, the rest later, four-cleft.*

559. SAX-

559. SAXIFRAGA. * *Tournef.* 129. *Geum Tournef.* 129. *Saxifrage.*

- CAL. *Perianth* one-leaved, five-parted, short, acute, permanent.
 COR. *Petals* five, expanding, narrow'd at the base.
 STAM. *Filaments* ten, awl'd. *Anthers* roundish.
 PIST. *Germ* roundish-pointed, ending in two short *Styles*. *Stigmas* obtuse.
 PER. *Capsule* nearly egg'd, two-beak'd, one-cell'd, gaping between the tops.
 SEEDS numerous, minute.
 OBS. *Saxifraga of Tournef. has a Capsule and the Germ surrounded with the receptacle of the flower, or beneath.*
Geum of Tournef. has a Capsule and the Germ sitting on the receptacle of the flower, or above.

560. TIARELLA.

- CAL. *Perianth* five-parted: the *leaflets* egg'd, acute, permanent.
 COR. *Petals* five, oblong, intire, inserted into the calyx.
 STAM. *Filaments* ten, thread-form, longer than the corol, inserted into the calyx. *Anthers* roundish.
 PIST. *Germ* two-cleft, ending in two *Styles*, very short. *Stigmas* simple.
 PER. *Capsule* oblong, one-cell'd, two-valved: the valvelets flattish, one twice as long.
 SEED very numerous, egg'd, glossy.

561. MITELLA. * *Tournef.* 126. *False American Sanicle.*

- CAL. *Perianth* one-leaved, half-fivecleft, bell'd, permanent.
 COR. *Petals* five, manycleft-capillary, twice as large as the calyx, inserted into the calyx.
 STAM. *Filaments* ten, awl'd, inserted into the calyx, shorter than the corol. *Anthers* roundish.
 PIST. *Germ* roundish, two-cleft. *Styles* scarcely any. *Stigmas* obtuse.
 PER. *Capsule* egg'd, one-cell'd, two-valved: with flat, equal valvelets.
 SEEDS very numerous.

562. SCLE-

562. SCLERÁNTHUS. * Knawel *Dill. gen. 3.*
German Knot-grass.

CAL. *Perianth* one-leaved, tubular, half-fivecleft, acute, permanent, contracted in the neck.

COR. none.

STAM. *Filaments* ten, awl'd, erect, very small, sitting on the calyx. *Anthers* roundish.

PIST. *Germ* roundish. *Styles* two, erect, capillary, the length of the stamens. *Stigmas* simple.

PER. *Capsule* egg'd, very slender, in the bottom of the calyx, the neck closed.

SEEDS two, convex on one side, flat on the other.

563. GYPSCPHILA.

CAL. *Perianth* bell'd, angular, five-parted: the *leaflets* egg'd, permanent.

COR. *Petals* five, egg'd, obtuse, expanding, sessile.

STAM. *Filaments* ten, awl'd, expanding. *Anthers* roundish.

PIST. *Germ* subglobular. *Styles* two, thread-form, gaping. *Stigmas* simple.

PER. *Capsule* globular, one-cell'd, five-valved.

SEEDS very numerous, roundish.

Obs. *G. paniculata* (*panicled*) is two-house.

564. SAPONÁRIA. * Soap-wort.

CAL. *Perianth* one-leaved, naked, tubular, five-tooth'd, permanent.

COR. *Petals* five. *Claws* narrow, angular, the length of the calyx. *Border* flat: with folds outwardly broader, obtuse.

STAM. *Filaments* ten, awl'd, the length of the tube of the corol: the *alternate ones* inserted into the claws of the *Petals*; *five* superior. *Anthers* oblong, obtuse, incumbent.

PIST. *Germ* columnarish. *Styles* two, straight, parallel, the length of the stamens. *Stigmas* acute.

PER. *Capsule* the length of the calyx, cover'd, one-cell'd, oblong.

SEEDS very numerous, small. *Receptacle* free.

Obs. *The figure of the calyx is various in various plants.* R.

565. DIANTHUS. * *Caryophilus Tournef.* 174.
Tunica Dill. elth. 298. *Pink.*

CAL. *Perianth* cylindric, tubular, striated, permanent, five-tooth'd in the *mouth*, surrounded at the base with four *Scalelets*, of which the two inferior are opposite.

COR. *Petals* five. *Claws* the length of the calyx, narrow, inserted into the receptacle. *Border* flat: with folds outwardly broader, obtuse, notch'd.

STAM. *Filaments* ten, awl'd, the length of the calyx, with expanded tops. *Anthers* oval-oblong, compress'd, incumbent.

PIST. *Germ* oval. *Styles* two, awl'd, longer than the stamens. *Stigmas* recurved, pointed.

PER. *Capsule* cylindric, cover'd, one-cell'd, gaping four ways at the top.

SEEDS very numerous, compress'd, roundish. *Receptacle* free, four-corner'd, shorter by half than the pericarp.

OBS. *In some the Styles scarcely exceed the length of the Stamens, yet in others they are very long, but so revolute, that the inflection of the flower is not necessary.*

II. THREE FEMALE S.
(Trigynia.)

566. CUCÚBALUS. * *Tournef.* 179. *Berry-bearing Chickweed.*

CAL. *Perianth* one-leaved, tubular, five-tooth'd, permanent.

COR. *Petals* five. *Claws* the length of the calyx. *Border* flat: the *Folds* often two-cleft.

Nectary none crowning the corol.

STAM. *Filaments* ten, awl'd; the *alternate ones* later, the *alternate ones* inserted into the claws of the Petal. *Anthers* oblong.

PIST. *Germ* oblongish, *Styles* three, longer than the stamens, awl'd. *Stigmas* pubescent, oblong, bent against the Sun.

PER. *Capsule* cover'd, three-cell'd, gaping five ways at the top.

SEEDS very numerous, roundish.

OBS. *It is distinguish'd from Silene by the Corol not having a nectarial crown.*

C. Otites is two-house.

The Figure of the Calyx is various in different species. R.

In *C. bacciferus* (berry-bearing,) the Corol is crown'd, therefore ought to be removed to *Silene*. Hall. R.

567. SILÈNE. * *Viscacogo Dill. 'eltb. 309. &c.*
Catchfly.

CAL. *Perianth* one-leaved, bellied, five-tooth'd, permanent.

COR. *Petals* five. *Claws* narrow, the length of the calyx, margined.
Border flat, obtuse, often two-cleft.

Nectary composed of two toothlets, in the neck of each petal, constituting the crown of the throat.

STAM. *Filaments* ten, awl'd: the *alternate ones* inserted into the claws of the petals, later, *Anthers* oblong.

PIST. *Germ* cylindric. *Styles* three, simple, longer than the stamens.
Stigmas bent against the Sun.

PER. *Capsule* cylindric, cover'd, gaping five ways at the top.

SEEDS very numerous, kidney-form.

OBS. *It differs from Cucubalus in the nectarial crown of the corol.*

568. STELLARIA. (*Star*) * *Alfine Tournef. 126.*
Great Chickweed.

CAL. *Perianth* five-leaved: the *leaflets* egg-lanced, concave, acute, expanding, permanent.

COR. *Petals* five, two-parted, flat, oblong, withering.

STAM. *Filaments* ten, thread-form, shorter than the corol: the *alternate ones* shorter. *Anthers* roundish.

PIST. *Germ* roundish. *Styles* three, capillary, expanding. *Stigmas* obtuse.

PER. *Capsule* egg'd, cover'd, one-cell'd, six-valv'd.

SEEDS very numerous, roundish, compress'd.

OBS. *St. radians (ray'd) has five-parted petals. R.*

569. ARE-

569. ARENARIA. * *Sandwort.*

CAL. *Perianth* five-leaved: the *leaflets* oblong, pointed, expanding, permanent.

COR. *Petals* five, egg'd, intire.

STAM. *Filaments* ten, awl'd: the *alternate ones* more interior. *Anthers* roundish.

PIST. *Germ.* egg'd. *Styles* three, erect-reflected, *Stigmas* thickish.

PER. *Capsule* egg'd, cover'd, one-cell'd, gaping five ways at the top.

SEEDS very numerous, kidney-form.

OBS. A. tetraquetra (*four-sided*) has a *five-valv'd capsule*.

The number of the stamens is inconstant. R.

DEUTZIA. * *Thunberg. Flor. Jap.*

CAL. *Perianth* one leaved, rather bell'd, thrice as short as the corol, downy, 5-cleft, sometimes 6-cleft: the *divisions* egg'd, obtuse, erect.

COR. 5-petal'd, sometimes 6-petal'd. *Petals* inserted without the margin of the germ, oblong, obtuse, intire, white, quarter-inch.

STAM. *Filaments* 10, inserted without the margin of the germ, linear, thread-form at top, end-nick'd under the top, three-cleft, white, the length of the corol, the *alternate ones* rather shorter. *Anthers* globular, twin.

PIST. *Germ* above, bristle-form, concave in the middle. *Styles* three, sometimes four, thread-form, rather longer than the corol. *Stigmas* simple, club'd.

PER. *Capsule* globular, lop'd, perforated, rather three-corner'd, callous, rugged, three-awn'd with the permanent bases of the pistils, three-valved, 3-cell'd, sometimes 4-cell'd, the size of pepper, ash-colour'd, gaping at the base.

SEEDS many in each cell.

570. CHERLÉRIA. * *Hall. it. belu. i.*

CAL. *Perianth* five-leaved: the *leaflets* lanced, concave, equal.

COR. *Petals* none (*unless you assume the calyx or nectaries.*)

Nectaries five, end-nick'd, placed in an orb, very small.

STAM. *Filaments* ten, awl'd, of which the *alternate ones* are affixed to the back of the nectaries. *Anthers* simple.

PIST. *Germ* egg'd. *Styles* three, scollop'd. *Stigmas* simple.

PER. *Capsule* egg'd, three-cell'd, three-valved.

SEEDS two or three, kidney-form.

571. GARIDÉLLA. *Tournef.* 430. *Fennel-flower of Crete.*

CAL. *Perianth* five-leaved, small: the *leaflets* egg'd, acute, deciduous.

COR. *Petals* none (unless the calyx is adopted.)

Nectaries five, long, equal, two-lip'd: the *exterior lip* two-cleft, flat: with long, linear, obtuse *divisions*. The *interior lip* shorter, simple.

STAM. *Filaments* often ten, awl'd, shorter than the corol. *Anthers* erect, obtuse.

PER. *Germ*s three, egg'd, erect, pointed, connected. *Styles* scarcely any. *Stigmas* simple.

PER. *Capsules* three, connected, oblong, pointed, compress'd, two-valved: the interior future more convex.

SEEDS numerous, short.

OBS. *Garidella* approaches very nearly to *Nigella*.

572. MALPIGHIA. * *Plum.* 36. *Barbadoes Cherry.*

CAL. *Perianth* five-leaved, erect, very small, permanent, converging. *Glands* melliferous, two, oval, gibbous, growing externally and below the calyx-leaflets.

COR. *Petals* five, kidney-form, large, plaited, fringed, expanding, concave: with long, linear *claws*.

STAM. *Filaments* ten, broadish, awl'd, erect, placed in a cylinder, small. *Anthers* hearted.

PIST. *Germ* roundish, very small. *Styles* three, thread-form. *Stigmas* obtuse.

PER. *Berry* globular, wreathed, large, one-cell'd.

SEEDS three, bony, oblong, obtuse, angular: with an oblong, obtuse *Nucleus*.

OBS. *M. nitida* (glossy) has but one style. R.

573. BANISTERIA. † *Houft. A. A.*

CAL. *Perianth* five-parted, very small, rigid underneath with tubercles, permanent.

Two melliferous Glands under each division of the calyx, (except one, and are therefore eight in number.)

COR. *Petals* five, orbicular, very large, expanding, notch'd : with oblong linear claws.

STAM *Filaments* ten, very small. *Anthers* simple.

PIST. *Germ*s three, winged, coalesced. *Styles* three, simple. *Stigmas* obtuse.

PER. three, running out into a long wing, one-cell'd, mark'd at the sides with small appendages, not gaping.

SEEDS solitary cover'd, tooth'd on the lateral margin.

OBS. *The flower shews an affinity with Malpighia, but especially the glands of the calyx.*

569. HIRÆA. *Jacq. amer. 137. t. 176. f. 42.*

CAL. *Perianth* five-leaved : the *leaflets* egg'd, erect, very small, permanent.

COR. *Petals* five, roundish, concave with long claws.

STAM. *Filaments* ten, capillary, of which the exterior are shorter. *Anthers* roundish, erect.

PIST. *Germ* roundish. *Styles* three, simple, erect. *Stigmas* two-cleft, obtuse, expanding.

PER. none.

SEEDS three, erect, keel'd on the back : each externally increased at the base, with a single, and at the top with a double expanded wing.

OBS. *The Capsule is three-wing'd, three-cell'd and two-seeded. Syst. Veg. But Jacquin affirms that three capsules augmented on the back with two membranous wings, one-cell'd, one-seeded, are present in this genus. R.*

574. TRIOPTERIS. † *Gen. pl.* i. n. 860. *Three-wings.*

CAL. *Perianth* five-parted, very small, permanent.

COR. *Petals* (the wings of the seeds) six, egg'd, erect-expanded, equal, permanent.

Three other less wings, stand round the former, equal among themselves.

STAM. *Filaments* ten, capillary, placed on the outside the petals (so call'd) the exterior ones shorter. *Anthers* simple.

PIST. *Germ* three-cleft. *Styles* three, erect. *Stigmas* obtuse.

PER. none.

SEEDS three, erect, keel'd on the back: each with a single wing at the base, a double expanded one at the top.

QBS. *The wings of the seeds counterfeit the petals, yet they are not real ones. It differs from Hiræa chiefly in the absence of true petals. We read in Syst. Veg. that there are three Capsules two-wing'd, and one-seeded. R.*

375. ERYTHROXYLON. † *Brown. p.* 278. (*Redwood.*) *Jacq. amer.* 134.

CAL. *Perianth* one-leaved, five-cleft, top-shape: (the divisions egg'd, acute,) very small, withering.

COR. *Petals* five, egg'd, concave, expanding.

Nectary with five scales, end-nick'd, erect, colour'd, inserted into the base of the petals.

STAM. *Filaments* ten, the length of the corol, connected at the base by a lop'd membrane. *Anthers* hearted.

PIST. *Germ* egg'd. *Styles* three, thread-form, distant, the length of the stamens. *Stigmas* obtuse, thickish.

PER. *Drupe* egg'd, one-cell'd.

SEED *Nut* oblong, obtusely quadrangular.

IV. FIVE

IV. FIVE FEMALES.

(Pentagynia.)

576. AVÉRRHOA. †

CAL. *Perianth* five-leaved, erect, small: the *leaflets* lanced, permanent.

COR. *Petals* five, lanced, upright at the lower part, expanding at the higher.

STAM. *Filaments* ten, bristly: the alternate ones the length of the corol; the alternate ones shorter. *Anthers* roundish.

PIST. *Germ* oblong, obscurely five-corner'd. *Styles* five, bristly, erect. *Stigmas* simple.

PER. *Pome* top-shape, five-corner'd, five-cell'd.

SEEDS angular, separated by membranes.

577. SPÓNDIAS. † Jacq. amer. 138. Monbin
Plum. 22. Brasillian Plum.

CAL. *Perianth* one-leaved, rather bell'd, small, five-cleft, colour'd, deciduous.

COR. *Petals* five, oblong, flat, expanding.

STAM. *Filaments* ten, awl'd, erect, shorter than the corol: the alternate ones longer. *Anthers* oblong.

PIST. *Germ* egg'd. *Styles* five, short, distant, erect. *Stigmas* obtuse.

PER. *Drupe* oblong, large, mark'd with five dots from the fall of the *Styles*.

SEED *Nut* egg'd, woody, fibrous, rather five-angled, five-cell'd.

578. COTYLÉDON. * *Dill. elth. 95. Tournef.*
19. Navel-wort.

CAL. *Perianth* one-leaved, five-cleft, acute, very small.

COR. *Petal* bell'd, five-cleft.

Nectary a concave scale, one at the exterior base of each germ.

STAM. *Filaments* ten, awl'd, straight, the length of the corol. *Anthers* erect, four-furrow'd.

PIST. *Germes* five, oblong, thickish, ending in *Styles* awl'd, longer than the *stamens*. *Stigmas* simple.

PER. *Capsules* five, oblong, bellied, pointed, one-valved, gaping longitudinally within.

SEEDS very numerous, small.

OBS. In *C. laciniata* (jagg'd) one fifth part of the number in every part of the fructification is excluded.

579. SEDUM. * *Tournef. 140. A. B. G. H. K. M.*
Anacampteros Tournef. Less House-leek.

CAL. *Perianth* five-cleft, acute, erect, permanent.

COR. *Petals* five, lanced, pointed, flat, expanding.

Nectaries five: each a very small end-nick'd scale, outwardly inserted at the base into each germ.

STAM. *Filaments* ten, awl'd, the length of the corol. *Anthers* roundish.

PIST. *Germes* five, oblong, ending in slenderer *styles*. *Stigmas* obtuse.

PER. *Capsules* five, expanding, pointed, compress'd, end-nick'd towards the base, gaping inwardly in the future longitudinally.

SEEDS very numerous, very small.

580. PEN-

580. PENTHÓRUM. * *Gronov. virg.* 51.

CAL. *Perianth* one-leaved, 5-10-cleft, acute, permanent.

COR. *Petals* often five, (seldom none) linear, very small, between the divisions of the calyx.

STAM. *Filaments* ten, bristly, equal, twice as long as the calyx, permanent. *Anthers* roundish, deciduous.

PIST. *Germ* colour'd, ending in five *Styles*, conic, erect, the length of the stamens, distant. *Stigmas* obtuse.

PER. *Capsule* simple, five-cleft, with distant conic angles, five-cell'd.

SEEDS numerous, very small, rather compress'd.

OBS. *It differs from Sedum in the absence of Nectaries.*

1309. BÉRGIA. †

CAL. *Perianth* five-parted, expanding: the *leaflets* lanced, permanent.

COR. *Petals*, five, oblong, expanded, the length of the calyx.

STAM. *Filaments* ten, bristly, middle size. *Anthers* roundish.

PIST. *Germ* roundish, above. *Styles* five, very short, approximated. *Stigmas* simple, permanent.

PER. *Capsule* simple, subglobular, dagger'd, five-wreath'd, five-cell'd, five-valved: the *valvelets* egg'd, flat, gaping according to the furrows, permanent, most expanded.

SEEDS numerous, minute.

581. SURIANA. † *Plum.* 40. *Jacq. amer.* 140.

CAL. *Perianth* five-leaved: the *leaflets* lanced, pointed, permanent.

COR. *Petals* five, inverse-egg'd, the length of the calyx, expanding.

STAM. *Filaments* ten, thread-form, shorter than the corol. *Anthers* simple.

PIST. *Germ*s five, roundish. *Styles* solitary, thread-form, erect, the length of the stamens, inserted into the middle of the interior side of the germ. *Stigmas* obtuse.

PER. none.

SEEDS five, roundish.

OBS. *The Styles do not proceed from the top, but from the side of the germ.*

1235. GRIELUM.

CAL. *Perianth* one-leaved, expanding, deeply five-cleft, flat at the base, acute, equal, permanent.

COR. *Petals* five, expanding, large, inverse-egg'd, sessile, attenuated at the base.

Nectaries, oblong glands surrounding the germ, conjoin'd in a coronet.

STAM. *Filaments* ten, thread-form, rigidish, equal, permanent, the length of the calyx. *Anthers* egg-oblong, erect.

PIST. *Germ*s five, distinct, awl'd, erect, shorter than the stamens, *Styles* none. *Stigmas* warty.

PER. five, oblong, pointed, hard.

SEEDS solitary? oblong.

OBS. *It is not yet evident whether it is a difference of sex in some species, or a withering of the Pistil.*

582. ÓXALIS. * Oxys Tournef. 13. Oxyoides
Garc. A. A. 1730. n. 416. t. 2.
Wood-sorrel.

CAL. *Perianth* five-parted, acute, very short, permanent.

COR. five-parted, cohering by claws, erect, obtuse, end-nick'd.

STAM *Filaments* ten, capillary, erect: the exterior ones shorter. *Anthers* roundish, furrow'd.

PIST *Germ* five-angled. *Styles* five, thread-form, the length of the stamens. *Stigmas* obtuse.

PER. *Capsule* five-corner'd, five-cell'd, gaping longitudinally in the angles.

SEEDS roundish, leaping.

OBS. *Capsule in some is short, with solitary seeds; in others long, the seeds very numerous.*

583. AGROS-

583. AGROSTÉMMA. * *Wild Campion.*

- CAL. *Perianth* one-leaved, leathery, tubular, five-tooth'd, permanent.
 COR. *Petals* five. *Claws* the length of the tube of the calyx. *Border* with folds expanding, obtuse.
 STAM. *Filaments* ten, awl'd: the *alternate ones* later, inserted into each claw of the petals. *Anthers* simple.
 PIST. *Germ* egg'd. *Styles* five, thread-form, erect, the length of the stamens. *Stigmas* simple.
 PER. *Capsule* egg-oblong, cover'd, one-cell'd, five-valved.
 SEEDS very numerous, kidney-form, dotted. *Receptacles* free, as many as seeds, the interior ones gradually longer.
 OBS. In *A. Githago* the *Corol* is not crown'd, as in the rest.

584. LÝCHNIS. * *Tournef.* 175. A. B. K. L. M. *Campion.*

- CAL. *Perianth* one-leaved, oblong, membranous, five-tooth'd, permanent.
 COR. *Petals* five: *Claws* the length of the calyx, flat, margin'd. *Border* with folds often cleft, flat.
 STAM. *Filaments* ten, longer than the calyx; *alternate ones* later, affixed to each claw of the petals. *Anthers* incumbent.
 PIST. *Germ* rather egg'd. *Styles* five, awl'd, longer than the stamens. *Stigmas* reflected against the Sun, pubescent.
 PER. *Capsule* approaching to an egg'd figure, cover'd, three-cell'd, five-valved.
 SEEDS very numerous, roundish.
 OBS. *L. dioica* (*two-house*) is distinguish'd by the sex.
L. Viscaria has undivided petals, and a four-cell'd capsule.
L. quadridentata (*four-tooth'd*) varies in 3, 4, 5 pistils. R.
L. Alpina (*alpine*) has four styles. R.

585. CE-

585. CERASTIUM. * *Myosotis Tournef.* 126.
Mouse-ear Chickweed.

CAL. *Perianth* five-leaved: the *leaflets* egg-lanced, acute, expanding, permanent.

COR. *Petals* five, two-cleft, obtuse, erect-expanding, the length of the calyx.

STAM. *Filaments* ten, thread-form, shorter than the corol: the *alternate ones* shorter. *Anthers* roundish.

PIST. *Germ* egg'd. *Styles* five, capillary, erect, the length of the *stamens*. *Stigmas* obtuse.

PER. *Capsule* egg-cylindric, or globular, obtuse, one-cell'd, gaping with a five-tooth'd top.

SEEDS very numerous, roundish.

OBS. *Species* 5. 4. are furnish'd with five *stamens* only. The primary divisions of the species must be taken from the oblong and globular *Capsule*.

C. *repens* (creeping) has 4-or 5-cleft petals.

586. SPERGULA. * *Dill. gen. 7.* *Spurrey.*

CAL. *Perianth* five-leaved: the *leaflets* egg'd, obtuse, concave, expanding, permanent.

COR. *Petals* five, egg'd, concave, expanding, larger than the calyx, undivided.

STAM. *Filaments* ten, awl'd, shorter than the corol. *Anthers* roundish.

PIST. *Germ* egg'd. *Styles* five, reflex-erected, thread-form. *Stigmas* thickish.

PER. *Capsule* egg'd, cover'd, one-cell'd, five-valved.

SEEDS very numerous, globe-depress'd, girt with an end-nick'd margin.

OBS. It is distinguished from *Cerastium* by its intire petals.
S. *petandra* (five-male) has only five *stamens*.

1262. FORSKOEHLIA.

- CAL. *Perianth* nearly five-leaved, erect: the *leaflets* line-lanced, erect, parallel, acute, permanent.
- COR. *Petals* ten, rude, spatuled, concave, erect, withering, shorter by half than the calyx, with claws the length of the border.
- STAM. *Filaments* ten, thread-form, each within each petal, the length of the petal. *Anthers* twin, roundish, elastic.
- PIST. *Germ* five, distant, oblong, woolly. *Styles* bristly, longer than the corol. *Stigmas* simple.
- PER. none.
- SEEDS five, oblong, subcompress'd, attenuated at both ends, with wool interwoven.
- OBS. The number in some flowers is diminished, or increased. The flower is very difficult to explain. *Jacquin* and *Medicus* have observed eight *stamens* only. R.

V. T E N F E M A L E S.

587. NEURADA. * B. *Jussieu*.

- CAL. *Perianth* five-parted, above, very small.
- COR. *Petals* five, equal, larger than the calyx.
- STAM. *Filaments* ten, the length of the calyx. *Anthers* simple.
- PIST. *Germ* gibbous, beneath. *Styles* ten, the length of the *stamens*. *Stigmas* simple.
- PER. *Capsule* orbicular, depress'd, convex underneath, fenced every where with ascending prickles, ten-cell'd.
- SEEDS solitary.

588. PHY

588. PHYTOLÁCCA. * *Tournef.* 154. *American Nightshade.*

CAL. none, (*unless you call the colour'd calyx the corol.*)

COR. *Petals* five, roundish, concave, expanding, inflected at the top, permanent.

STAM. *Filaments* 10 or 8 or 20, awl'd, the length of the corol. *Anthers* roundish, lateral.

PIST. *Germ* orbicular, depress'd, divided externally with cords, ending in 8 or 10 *Styles*, very short, reflex-expanding. *Stigmas* simple, permanent.

PER. *Berry* orbicular, depress'd, longitudinally ploughed with ten furrows, navel'd with pistils, with as many cells.

OBS. Ph. dioica (*two-house*) is distinguished by its sex. There is also an eight-male and a twenty-male species.

C L A S S X I.

T W E L V E M A L E S.

(*Dodecándria.*)

I. O N E F E M A L E.

(*Monogýnia.*)

- 589 Áfarum.
Tómex.
591 Boccónia.
1347 Báffia.
592 Rhizóphora.
Apáctis.
593 Blakéa.
1310 Befária.
1311 Vática.
594 Garcínia.
596 Halésia.
597 Decumária.
598 Canélla.
599 Crataéva.
600 Triumfétta.
Eúrya.
601 Péganum.
1263 Hudfónia.
1392 Dódecas.
602 Nitrária.
603 Portuláca.
604 Lýthrum.
605 Ginóra.

II. T W O F E M A L E S.
(*Digýnia.*)

- 606 Heliocárpus.
607 Agrimónia.

III. T H R E E F E M A L E S.
(*Trigýnia.*)

- 608 Reféda.
609 Euphórbia.
1393 Visnéa.
1394 Tácca.
1395 Pallásia.

IV. F I V E F E M A L E S.
(*Pentagýnia.*)

- 610 Glínus.

V. M A N Y F E M A L E S.
(*Polygýnia.*)

- 612 Sempervívum.

T W E L V E

TWELVE MALES.

(Dodecàndria.)

Stamens from 11 to 12 inclusively.

I. ONE FEMALE.

(Monogýnia.)

589. ÁSARUM. * *Tournef.* 286. *Asarabacca.*CAL. *Perianth* one-leaved, bell'd, three-or five-cleft, leathery, colour'd, permanent: the *divisions* erect, inflexed at the top.

COR. none.

STAM. *Filaments* twelve, awl'd, shorter by half than the calyx. *Anthers* oblong, growing to the middle partition of the filaments.PIST. *Germ* beneath or concealed within the substance of the calyx. *Style* cylindric, the length of the stamens. *Stigma* star'd, six-parted, with reflected *divisions*.PER. *Capsule* leathery, within the substance of the calyx, mostly six-cell'd.

SEEDS many, egg'd.

TÓMEX. *Thunberg.* *Flor. Jap.*CAL. *Universal Involucre* 5-leaved, seldom 6-leaved, 5-flower'd, seldom 6-flower'd, permanent: the *leaflets* egg'd, outwardly downy, very obtuse, unequal, imbricated, very concave, the exterior ones less.*Proper Perianth* (not a corol) 5-leaved, permanent: the *leaflets* lanced, outwardly villous, erect-expanding.

COR. none, except the proper perianth.

STAM. *Filaments* twelve, thread-form, unequal, the five exterior the length of the involucre; the seven interior white, very short. *Anthers* egg'd, twin, yellow.*Nectary* five scales placed between the interior stamina, folded, notch'd, green, smooth, the length of the filaments.PIST. *Germ* above, three-sided, green, smooth, in the middle of the scales of the nectary. *Style* none. *Stigma* awl'd, green, abortive.

PER. - - - -

SEED - - - -

591. BOC-

591. BOCCÓNIA. † *Plum.* 25. *Jacq. amer.* 146.CAL. *Perianth* two-leaved, egg'd, obtuse, concave, falling off.

COR. none.

STAM. *Filaments* twelve, very short. *Anthers* linear, very large, the length of the calyx.PIST. *Germ* roundish, contracted at both ends, large, pedicel'd. *Style* one, two-cleft. *Stigmas* simple, reflected.

PER. nearly egg'd, attenuated and produced at both ends, compressed, one-cell'd, replete with pulp.

SEED one, globular.

1347. BASSIA. * *Auth. D. Kænig.*CAL. *Perianth* four-leaved: the *leaflets* leathery, egg'd, permanent.COR. one-petal'd, bell'd: *Tube* inflated, egg'd, fleshy. *Border* shorter than the tube, eight-parted: with egg'd, erectish divisions.STAM. *Filaments* sixteen, 8 above the throat, 8 within the tube. *Anthers* linear, arrow'd, acute, villous within, shorter than the corol.PIST. *Germ* above, egg'd. *Style* awl'd, twice as long as the corol. *Stigma* acute.PER. *Drupe* fleshy, milky.SEEDS *Nuts* 5, oblong, three-corner'd.592. RHIZÓPHORA. † (*Root-bearing*) *Mangles*
Plum. 15. *Indian Candle.*CAL. *Perianth* four-parted, spreading: the *divisions* oblong, pointed, permanent.COR. *Petals* four, oblong, rather shorter than the calyx.STAM. *Filaments* scarcely any: the *alternate ones* shorter. *Anthers* (4-12), small, pointed.PIST. *Germ* above, roundish. *Style* awl'd, half-two-cleft, plough'd on both sides with a furrow. *Stigma* acute.

PER. fleshy, rather egg'd, including only the base of the seed.

SEED one, club-oblong, pointed, fleshy at the base.

OBS. *The stamens differ in number as well as the calyx and corol. There are species with four-parted corols.* R.

APACTIS. *Thunberg. Flor. Jap.*

CAL. none.

COR. 4-petal'd. *Petals* roundish, notch'd, concave, unequal, the opposite ones broader.STAM. *Filaments* about 16 to 20.PIST. *Germ* above. *Style* one.

PER. - - - -

SEED - - - -

593. BLAKEA. † *Brown. t. 35.*CAL. *Perianth* of the fruit beneath, six-leaved: the leaflets oval, concave, expanding, the size of the flower.*Perianth* of the flower above: margin most intire, six-angled, membranous.COR. *Petals* six, egg'd, expanding, equal.STAM. *Filaments* twelve, awl'd, erect. *Anthers* triangular, depress'd concatenated in a ring.PIST. *Germ* beneath, inverse-egg'd, crown'd with the margin of the calyx. *Style* awl'd, the length of the flower. *Stigma* acute.PER. *Capsule* inverse-egg'd, six-cell'd.

SEEDS very numerous.

OBS. The stamens of *B. triplinervia* (three-nerved) terminate in anthers, the anthers are not placed on filaments. R.1310. BEFÁRIA. *Aut. D. Mutis.*CAL. *Perianth* one-leaved, gibbous downward, rather bellied, seven-cleft: (the divisions subequal, egg'd, acute, converging, small, the exterior ones broader), permanent.COR. *Petals* seven, oblong, broader above, obtuse, expanded, inserted into the receptacle.STAM. *Filaments* fourteen, awl'd, rather shorter than the corol: the alternate ones less. *Anthers* oblong, incumbent.PIST. *Germ* above. *Style* columnar, middle-size, permanent. *Stigma* thickish, seven-friated.PER. *Berry* juiceless, seven-corner'd, depress'd, navel'd, seven-cell'd
SEEDS numerous, column-oblong, imbricated.

1311. VÁ.

1311. VATICA.

CAL. *Perianth* one-leaved, five-parted, obtuse at the base, erect: the divisions lanced, shorter than the corol.

COR. *Petals* five, sessile, elliptic, large.

STAM. *Filaments* none, *Anthers* fifteen, sessile, very short, four-cell'd: the two exterior cells terminated with an intermediate thorn; the two interior cells shorter by half, awnless.

PIST *Germ* conic, rather five-corner'd. *Style* cylindric, five-friated. *Stigma* obtuse.

PER. - - - - -

SEEDS - - - - -

OBS. *It is a distinct genus, tho' the fruit is unknown.*

594. GARCINIA. † *Mangostans* *Garc. A. A.* 43 f. t. r.

CAL. *Perianth* four-leaved: the leaflets roundish, concave, obtuse, expanding, permanent.

COR. *Petals* four, roundish, concave, expanding, rather larger than the calyx.

STAM. *Filaments* sixteen, erect, placed in a cylinder, simple, shorter than the calyx, *Anthers* roundish.

PIST. *Germ* above, suboval. *Style* scarcely any. *Stigma* flat, expanding, targeted, eight-cleft, obtuse, permanent.

PER. *Berry* leathery, globular, large, one-cell'd, crown'd with the stigma.

SEEDS eight, convex on one side, angular on the other, villous, fleshy.

96. HALEZIA. † *D. Ellisii*.

CAL. *Perianth* one-leaved, very small, above, four-tooth'd, permanent.

COR. one-petal'd, bell'd, berried: the mouth four-lobed, obtuse, spreading.

STAM. *Filaments* twelve, (rarely 16), awl'd, erect, rather shorter than the corol. *Anthers* oblong, obtuse, erect.

PIST. *Germ* oblong, beneath. *Style* thread-form, longer than the corol. *Stigma* simple.

PER. *Nut* barky, oblong, narrowed at both ends, four-corner'd, with membranous angles, two-cell'd.

SEEDS solitary.

597. DECUMÁRIA. † *Fabric. Willich.*

- CAL. *Perianth* above, mostly ten-leaved, very small: the *leaflets* egg'd, colour'd, acute, reflected.
- COR. *Petals* ten, lanced, obtuse, equal, digested in a simple orb expanding.
- STAM. *Filaments* 16-25, thread-form, the length of the corol. *Anthers* twin, depress'd.
- PIST. *Germ* top-shape, beneath. *Style* cylindric, shorter than the corol. *Stigma* gibbous, about ten-lobed with wreaths.
- PER. - - - - - ten-cell'd,
- SEEDS solitary.
- OBS. *This genus is obscure, the fruit being yet unknown. Is it two-hous'd?*

598. CANELLA. *Brown. Jam. 275. Murray Syst. Veg. Ed. 14. Winterana. Lin. Gen. Plant.*

- CAL. *Perianth* one-leaved, bell'd, three-lobed, with rounded, concave lobes.
- COR. *Petals* five, oblongish, sessile, longer than the calyx. *Nectary* pitcher'd, conic, concave, lop'd, the length of the corol.
- STAM. *Filaments* none. *Anthers* sixteen, linear, parallel, distant, growing outwardly to the nectary.
- PIST. *Germ* egg'd, within the nectary. *Style* cylindric, passing to aperture of the nectary. *Stigmas* three, obtuse.
- PER. *Berry* roundish, three-cell'd.
- SEEDS two, hearted.
- OBS. *It is allied to Tinus. Murray in System Veg. has changed name of this genus from Winterana to Canella.*

599. CRATÆVA. * *Tapia Plum.* 21. *Garlic Pear.*

- CAL. *Perianth* one-leaved, four-cleft, deciduous, flat at the base: the *divisions* expanding, egg'd, unequal.
- COR. *Petals* four, oblong, deflected to the same side, with slender *claws*, the length of the calyx, inserted into the interstices.
- STAM. *Filaments* sixteenth or more, bristly, declining to the side opposite to the petals, shorter than the corol. *Anthers* erect, oblong.
- PIST. *Germ* with a very long, thread-form pedicel, egg'd. *Style* none. *Stigma* sessile, headed.
- PER. *Berry* fleshy, globular, very large, two-cell'd, pedicel'd, one-cell'd.
- SEEDS many, roundish, end-nick'd, nestling.
- OBS. *There is 1 species with flowers of the class Feminine Males.* R.
C. Marmelos has a five-cleft calyx, no petals? and is furnished with 60 stamens. Is it a distinct genus? Lin. R.

EURYA. *Thunberg. Flor. Jap.*

- CAL. *Perianth* 5-leaved, calyced: the *Calycle* two-leaved, like the calyx, three times less: the *leaflets* of the calyx egg'd, concave, obtuse, tawny or green outwardly, smooth, green within; half a line long.
- COR. 5-petal'd. *Petals* egg-roundish, concave; white, the size of the calyx.
Nectary a dot or purple margin at the base of the filament.
- STAM. *Filaments* 13, very short, almost none, white. *Anthers* erect, 4-corner'd, white, almost the length of the corol.
- PIST. *Germ* above, convex, smooth. *Style* awl'd, green, shorter than the anthers. *Stigmas* three, reflected.
- PER. *Capsule* globular, acute with the permanent style, smooth, 5-valved, 5-cell'd, scarcely the size of pepper.
- SEEDS rather 3-sided, dotted, brown, smooth.

600. TRIUMFETTA. * Plum. 8.

CAL. *Perianth* five-leaved; the *leaflets* lanced, awned under the top, deciduous.

COR. *Petals* five, linear, erect, obtuse, concave, retroflected, awned under the top.

STAM. *Filaments* sixteen, equal, ascending, the length of the corol, awl'd, erect. *Anthers* simple.

PIST. *Germ* roundish. *Style* the length of the *filaments*. *Stigma* two-cleft, acute.

PER. *Capsule* globular, guarded on every side with hooked prickles, four-cell'd.

SEEDS two, convex on one side, angled on the other.

OBS. In *T. Lappula* there was no calyx in one flower seen by me, and in many by *Jacquin*; but in *T. semitriloba* (half-3-lobed)

Of *Jacquin* there is a perfect calyx, as in *Plumier* and *Brown*; ought such very similar plants to be separated in species?

601. PEGANUM. * *Harmala Tournef.* 153. *Syrian Rue.*

CAL. *Perianth* five-leaved: the *leaflets* linear, often tooth'd, erect, the length of the corol, acute, permanent.

COR. *Petals* five, egg-oblong, erect-expanding.

STAM. *Filaments* fifteen, awl'd, shorter by half than the corol, dilated at the base into a *nectary* under the germ. *Anthers* oblong, erect.

PIST. *Germ* threecorner-roundish, elevated on the receptacle from the base of the flower. *Style* thread-form, columnar, the length of the anthers. *Stigma* oblong, three-sided.

PER. *Capsule* threecorner-roundish, three-cell'd, three-valved.

SEEDS very numerous, egg'd, pointed.

OBS. *Peganum* differs from *Ruta*, as *Celastrus* from *Euonymus*; for whatever is lost in the number of the pistils, is added to the stamens and vice versa.

1392. DÓDECAS. S.

- CAL. *Perianth* above, one-leaved, top-shape, half-fourcleft: the *divisions* egg'd, expanding.
 COR. *Petals* four, sessile, inserted into the calyx, roundish.
 STAM. *Filaments* twelve, capillary, shorter than the calyx, inserted into the receptacle. *Anthers* oblong.
 PIST. *Germ* half-above. *Style* thread-form, longer than the stamens. *Stigma* simple.
 PER. beneath, egg'd, one-cell'd, crown'd with the expanded calyx, within which is the naked four-valved top of the capsule.
 SEEDS numerous, oblong, minute.
 OBS. *It is perhaps a species of Fussiaea.*

1263. HUDSÓNIA.

- CAL. *Perianth* three-leaved, tubular, cylindric, with the mouth expanded: the *leaflets* lance-linear, obtuse.
 COR. none.
 STAM. *Filaments* fifteen, capillary, shorter than the calyx. *Anthers* roundish.
 PIST. *Germ* above, egg'd. *Style* thread-form, the length of the calyx. *Stigma* obtuse.
 PER. *Capsule* cylindric, shorter by half than the calyx, one-cell'd, three-valved.
 SEEDS three, rounded on one side, angled on the other.

602. NITRÁRIA. * *Act petrop. VII. p. 315. t. 10.*

- CAL. *Perianth* one-leaved, five-cleft, erect, very short, permanent.
 COR. *Petals* five, oblong, expanding, channel'd, vaulted at the top with an inflected dagger.
 STAM. *Filaments* fifteen, awl'd, erectish, the length of the corol. *Anthers* roundish.
 PIST. *Germ* egg'd, ending in a thickish *style*, longer than the stamens. *Stigma* simple.
 PER. *Drupe* one-cell'd, egg-oblong, pointed.
 SEED one, three-cell'd, egg'd, pointed.

603. PORTULACA. * *Tournef.* 118. *Anacampferos edit. prim.* *Telephiastrum Dill. elth.* 280. *Purslane.*

CAL. *Perianth* two-cleft, small, above, compressed at the top, permanent.

COR. *Petals* five, flat, erect, obtuse, larger than the calyx.

STAM. *Filaments* many, capillary, shorter by half than the corol. *Anthers* simple.

PIST. *Germ* roundish. *Style* simple, short. *Stigmas* five, oblong, the length of the style.

PER. *Capsule* cover'd, egg'd, one-cell'd. *Receptacle* free.

SEEDS very numerous, small.

OBS. *There are species with a circumcised capsule, others with a three-valved capsule.*

P. fruticosa, (shrubby) has a five-leaved calyx, and a three-valved capsule.

604. LYTHRUM. * *Salicaria Tournef.* 129. *Willow Herb.*

CAL. *Perianth* one-leaved, cylindric, striated with twelve toothlets: the alternate ones less.

COR. *Petals* six, oblong, obtusish, expanding, inserted with claws into the interstices of the calyx.

STAM. *Filaments* twelve, thread-form, the length of the calyx: the superior ones shorter than the inferior; *Anthers* simple, ascending.

PIST. *Germ* oblong. *Style* awl'd, the length of the stamens, declining. *Stigma* orbicular, ascending.

PER. *Capsule* oblong, pointed, covered, two-cell'd.

SEEDS numerous, small.

OBS. *In some species one sixth part of the number is deducted from the flower; other species have only six stamens.*

605. GINÓRA. *Jacq. amer.* 148.

- CAL. *Perianth* one-leaved: the *tube* bell'd, with a six-cleft *border*; the *divisions* lanced, expanding, colour'd, permanent.
- COR. *Petals* six, roundish, expanding, longer than the calyx, inserted with long claws into the neck of the calyx.
- STAM. *Filaments* twelve, awl'd, spreading, the length of the calyx, inserted into the calyx. *Anthers* kidney-form.
- PIST. *Germ* roundish, depressed. *Style* awl'd, the length of the corol, permanent. *Stigma* obtuse.
- PER. *Capsule* flat-roundish, glossy, coloured, rather four-furrow'd, four-valved, one-cell'd, gaping at the top.
- SEEDS very numerous, minute. *Receptacle* roundish, large.

II. TWO FEMALE S.

(*Digýnia.*)

606. HELIOCÁRPUS. * *Montia Houst. A. A.*
(*Sun-fruit.*)

- CAL. *Perianth* four-leaved, colour'd: the *leaflets* linear, long, broadish, expanding, deciduous.
- COR. *Petals* four, linear, much shorter than the calyx, narrower.
- STAM. *Filaments* sixteen, awl'd, nearly the length of the calyx. *Anthers* twin, linear, incumbent.
- PIST. *Germ* roundish. *Styles* two, simple, erect, the length of the stamens. *Stigmas* acute, distant.
- PER. *Capsule* top-egg'd, peduncled, compressed, perpendicularly girt at both ends with rays feather-wise branched, two-cell'd.
- SEEDS solitary, rather egg'd.

607. AGRI-

607. AGRIMÓNIA. * *Tournef.* 155. *Agrimonoï-*
des *Tournef.* 155. *Agrimony.*

CAL. *Perianth* one-leaved, five-cleft, acute, small, above, permanent, fenced with another calyx.

COR. *Petals* five, flat, end-nick'd: the *claws* narrow, inserted into the calyx.

STAM. *Filaments* capillary, shorter than the corol, inserted into the calyx. *Anthers* small, twin, compressed.

PIST. *Germ* beneath, *Styles* two, simple, the length of the stamens. *Stigmas* obtuse.

PER. none. *Calyx* contracted in the neck, indurated.

SEEDS two, roundish.

OBS. *The stamens are very uncertain in number, in some species twelve, seldom ten, in others seven.*

In Agrimonia T. the exterior calyx is adjoin'd to the interior. the seeds two, the stamens from twelve to twenty; the fruit fenced with bristles.

In Agrimonoides T. the exterior calyx is free from the interior one. Seed one. Stamens about seven.

III. THREE FEMALES.

(*Trigýnia.*)

608. RESÉDA. * *Tournef.* 238. *Luteola Tournef.*
238. *Sesamoides Tournef.* 238.
False Rocket. Mignonette.

CAL. *Perianth* one-leaved, parted: the *divisions* narrow, acute, erect, permanent, of which *two* gape more for the convenience of the melliferous petal.

COR. *Petals* few, unequal, *some* always half-threecleft, the *highest* gibbous at the base, melliferous, the length of the calyx.

Nectary: a gland flat, erect, produced from the receptacle, placed on the superior side, between the stamens and the highest petal, converging with the base of the petals, which is dilated on the same side.

STAM. *Filaments* eleven or fifteen, short. *Anthers* erect, obtuse, the length of the corol.

PIST. *Germ* gibbous, ending in *some* very short *styles*. *Stigmas* simple.

PER. *Capsule* gibbous, angular, pointed with styles, gaping between the styles, one-cell'd.

SEEDS very numerous, kidney-form, growing to the angles of the capsule.

OBS. *There is scarcely any genus in which the character is more difficult to be determined. For indeed it varies both in number and figure in different species.*

The essential character consists in the three-cleft petals, one at the base, being melliferous, and a capsule not closed, but always gaping.

In Luteola the Perianth is four-parted. Petals three: the highest melliferous, half-sixcleft; the lateral opposite ones three-cleft; two others are frequently added beneath, as a lusus naturæ, very small, intire, the Styles three, the Stamens very numerous.

In R. alba (white) the Perianth is six-parted. Petals six, subequal, all half-threecleft. Styles four. Capsule quadrangular. Stamens always eleven.

In other species the Perianth is five-parted. Petals five, dissimilar, three-cleft. Styles three. Stamens very numerous.

609. FU-

609. EUPHORBIA. * *Euphorbium* *Isnard*. A. G.
 1720. *Tithymalus* *Tournef.*
 18. *Tithymaloides* *Tournef.*
Spurge.

CAL. *Perianth* one-leaved, bellied, somewhat colour'd, four-tooth'd in the *mouth* (five-tooth'd in a few), permanent.

COR. *Petals* four, (five in a few), top-shape, gibbous, thick, lop'd, unequal in situation, alternate with the teeth of the calyx, placed with claws on the margin of the calyx, permanent.

STAM. *Filaments* many, (twelve or more) thread-form, jointed, inserted into the receptacle, longer than the corol, coming forth at different times. *Anthers* twin, roundish.

PIST. *Germ* roundish, three-sided, pedicel'd. *Styles* three, two-cleft. *Stigmas* obtuse.

PER. *Capsule* roundish, three-grain'd, three-cell'd, bursting elasticly.

SEEDS solitary, roundish.

OBS. *Euphorbium* *Is.* has an angular or fleshy stem, and the petals in some species three-cleft.

Tithymalus *T.* has a leafy stem.

In *Tithymaloides* *T.* the calyx at the lower side is gibbous, slipper-form. In some species the first flowers are male.

The *Petals* are often four, in some five, often in the same plant, with flowers different in sex; these are glandular in most, in some moon'd or tooth'd, in a few thin like a membrane, commonly placed as if on the outside of the calyx.

The *Capsule* is polish'd, or shaggy, or warty.

The *Stamens* do not all break forth at the same time.

1393. VISNÉA. S.

CAL. *Perianth* beneath, five-leaved, permanent: *Leaves* lanced, recurvate: the three exterior ones hairy.

COR. five-petal'd. *Petals* elliptic, equal, expanding, scarcely longer than the calyx, intire.

STAM. *Filaments* twelve, erect, inserted into the receptacle, thread-form, shorter than the petals. *Anthers* quadrangular, erect, terminated by an awn.

PIST. *Germ* above, shaggy, attenuated as if into a very short shaggy style. *Styles* three, thread-form, smooth. *Stigmas* simple.

PER. *Nut* egg'd, smooth, pointed, two or three-cell'd, half-beneath, included in the converging leaflets of the calyx, and the greatest part covered with the one-leaved part of the calyx, which is connected with the nut; but the superior third part of the nut naked within the calyx.

SEED one in each cell.

1394. TACCA. *Forst. gen. n. 35.* S.

CAL. *Perianth* above, six-leav'd. *Leaves* egg'd, converging, permanent.

COR. *Petals* six, vaulted, equal.

STAM. *Filaments* scarcely any. *Anthers* oblong, two growing in the cavity of each petal.

PIST. *Germ* beneath. *Styles* three, short. *Stigmas* inverse-hearted.

PER. *Berry* dry, egg'd, angular, three-cell'd.

SEEDS many, egg'd, striated.

1395. PALLASIA. *Pterococcus.* Pallas. S.

CAL. none.

COR. *Petals* five, roundish, subunequal, permanent.

STAM. *Filaments* fifteen, bristly, the length of the corol, thickish at the base, permanent. *Anthers* subglobular, twin.

PIST. *Germ* above, conic, plaited. *Styles* three or four, reflected. *Stigmas* headed.

PER. none, except the crust of the seed.

SEEDS *Nut* oblong, angular. *Angles* four, two-cleft, membranous.

IV. FIVE

IV. FIVE FEMALES.

(*Pentagynia*.)

610. GLINUS. * *Læssing*.

CAL. *Perianth* five-leaved: the *leaflets* egg'd, concave, colour'd within, permanent.

COR. none. *Nectaries* often five, flat, counterfeiting petals, narrow, shorter than the calyx, unequally two-cleft or three-cleft.

STAM. *Filaments* about fifteen, awl'd, flat, the length of the calyx. *Anthers* erect, oblong, compress'd, twin.

PIST. *Germ* five-corner'd. *Styles* five, short. *Stigmas* simple.

PER. *Capsule* egg'd, five-cell'd, five-angled, five-valved.

SEEDS very numerous, roundish, in a simple series under the valvelets, tubercled, affixed at the base to a tumid membranelet.

V. MANY FEMALES.

(*Polygynia*.)

612. SEMPERVIVUM. * *Sedi species. Tournef.*

140. C. E. I. *Houfseleek*.

CAL. *Perianth* from six to twelve-parted, concave, acute, permanent.

COR. *Petals* six to twelve, oblong, lanced, acute, concave, rather larger than the calyx.

STAM. *Filaments* six to twelve, awl-flender. *Anthers* roundish.

PIST. *Germ*s six to twelve, placed in an orb, erect, ending in as many expanding *styles*. *Stigmas* acute.

PER. *Capsules* six to twelve, oblong, compress'd, short, placed in an orb, pointed without, gaping within.

SEEDS many, roundish, small.

OBS. Often growing luxuriant it becomes greater as to the number, especially in the female parts of the flower.

It is allied to *Sedum*, but differs in petals being more than five.

C L A S S XII.

TWENTY MALES.

(Icosándria.)

I. ONE FEMALE.

(Monogýnia.)

- 613 Cáctus.
- 614 Philadélphus.
- 615 Psídium.
- 616 Eugénia.
- 617 Myrtus.
- 618 Púnica.
- 619 Amýgdalus.
- 620 Prúnus.
- 671 Plínia.
- 621 Chrysobálanus.
- 1396 Sonnerátia.

II. TWO FEMALES.
(Digýnia.)

- 622 Cratægus.

III. THREE FEMALES.
(Trigýnia.)

- 623 Sórbus.
- 624 Sesúvium.

IV. FIVE FEMALES.
(Pentagýnia.)

- 625 Méspilus.
- 626 Pýrus.
- 627 Tetragónia.
- 628 Mesembryánt.
- 629 Aízoon.
- 630 Spiræa.

V. MANY FEMALES.
(Polygýnia.)

- 631 Rósa.
- 632 Rúbus.
- 633 Fragária.
- 634 Potentílla.
- 635 Tormentílla.
- 636 Géum.
- 637 Dryás.
- 638 Cómarum.
- 632 Calycánthus.

TWENTY

T W E N T Y M A L E S.

(Icosandria.)

The classic character, and the marks, by which this class is distinguished from the class many-males, are

1. The *Calyx* one-leav'd, concave.
2. The *Corol* is affixed by claws to the edge of the calyx.
3. The *Stamens* more than nineteen, inserted into the edge of the calyx or corol.

It is call'd Icosandria, (twenty-males) because the number of the stamens in this class are about twenty in the greatest part of the genera; yet the number is not to be assumed for the character; *since all of the class many-male which have their stamens inserted into the internal edge of the calyx, (but not into the receptacle) are rank'd under this Class.*

I. O N E F E M A L E.

(Monogýnia.)

613. CACTUS * Melocactus *Tournef.* 425. *Cereus Juss. A G.* 1716. *Opuntia Tournef.* 123. *Tuna Dill. elth.* 295. 299. *Pereskia Plum.* 26. *Melon-thistle.*

CAL. *Perianth* one-leav'd, imbricated, tube-hollow, sprinkled with scaly leaflets, above, deciduous.

COR. *Petals* numerous, obtusish, broad: the exterior ones short; the interior ones larger, converging.

STAM *Filaments* numerous, awl'd, inserted into the calyx. *Anthers* oblong, erect.

PIST *Germ* beneath. *Style* the length of the stamens, cylindric. *Stigma* headed, many-cleft.

PER. *Berry* oblongish, one-cell'd, navel'd, as a roughen'd calyx.

SEED numerous, roundish, small, nestling.

OBS. The *Cereus* of *Jussieu* is long, straight, angular.

The *melocactus* of *Tournefort* roundish, angular.

The *Opuntia* of *Tournefort* branchy, two-fork'd.

The *Pereskia* of *Plumier* arborescent, leafy: with leafy fruit.

The *melocactus* have single cotyledons, the *opuntias* double cotyledons, yet are of the same natural genus.

614. PHI-

614. PHILADÉLPHUS. * *Syringa Tournef.* 389.
Mock-Orange.

- CAL. *Perianth* one-leaved, four-parted, painted, permanent.
COR. *Petals* four, roundish, flat, large, expanding.
STAM. *Filaments* twenty, awl'd, the length of the calyx. *Anthers* erect, four-furrow'd.
PIST. *Germ* beneath. *Style* thread-form, four-parted, *Stigmas* simple.
PER. *Capsules* oval, pointed at both ends, girt with the calyx round the middle, four-cell'd, four-valved.
SEEDS numerous, oblong, small.
OBS. *One part is frequently added to the number of the parts of the fructification.*

615. PSÍDIUM. † *Guaiava Tournef.* 443. *Bay-Plumb.*

- CAL. *Perianth* one-leaved, bell'd, five-cleft: with egg'd *divisions*.
COR. *Petals* five, egg'd, concave, expanding, inserted into the calyx.
STAM. *Filaments* numerous, shorter than the corol, inserted into the calyx. *Anthers* small.
PIST. *Germ* roundish, beneath. *Style* awl'd, very long. *Stigma* simple.
PER. *Berry* oval, very large, crown'd with the calyx, one-cell'd.
SEEDS numerous, very small, nestling.

616. EUGÉNIA. * *Mich.* 108.

- CAL. *Perianth* one-leaved, four-parted: (the *divisions* oblong, obtuse, concave, permanent), above.
COR. *Petals* four, twice as large as the calyx, oblong, obtuse, concave.
STAM. *Filaments* very numerous, inserted into the calyx, the length of the corol. *Anthers* small.
PIST. *Germ* top-shape, beneath. *Style* simple, the length of the *stamens*. *Stigma* simple.
PER. *Drupe* quadrangular, crown'd, one-cell'd.
SEED *Nut* roundish, smooth.

617. MYRTUS. * *Tournef.* 409. *Myrtle*.

CAL. *Perianth* one-leaved, five-cleft, acute, erect, permanent, above.

COR. *Petals* five, egg'd, intire, large, inserted into the calyx.

STAM. *Filaments* numerous, capillary, the length of the corol, inserted into the calyx. *Anthers* very small.

PIST. *Germ* beneath. *Style* simple, thread-form. *Stigma* obtuse.

PER. *Berry* oval, navel'd with the calyx, two-or three-cell'd.

SEEDS solitary, kidney-form.

OBS. *The Calyx in some is four-cleft, with four Petals.*

The Calyx in others is most intire and undivided.

518. PUNICA. * *Tournef.* 407. *Pomegranate*.

CAL. *Perianth* one-leav'd, bell'd, five-cleft, acute, colour'd, permanent.

COR. *Petals* five, roundish, erect-expanding, inserted into the calyx.

STAM. *Filaments* numerous, capillary, shorter than the calyx, inserted into the calyx. *Anthers* oblongish.

PIST. *Germ* beneath. *Style* simple, the length of the stamens. *Stigma* headed.

PER. *Pome* subglobular, large, crown'd with the calyx, nine-cell'd.

SEEDS very numerous, roundish, succulent. *Receptacle* membranous, dividing each cell of the pericarp two ways.

OBS. *Botanists both paint and describe five pistils, to me one only was always obvious.*

619. AMYG-

619. AMYGDALUS. * *Tournef.* 402. *Perfica*
Tournef. 400. *Peach, Nec-*
trine, Almond.

CAL. *Perianth* one-leav'd, tubular, five-cleft: the *divisions* expand-
ing, obtuse, deciduous.

COR. *Petals* five, oblong-egg'd, obtuse, concave, inserted into the
calyx.

STAM. *Filaments* thirty, thread-form, erect, shorter by half than the
corol, inserted into the calyx. *Anthers* simple.

PIST. *Germ* above, roundish, villous. *Style* simple, the length of
the *stamens*. *Stigma* headed.

PER. *Drupe* roundish, villous, large, with a longitudinal furrow.

SEED *Nut* egg'd, compress'd, acute, with prominent sutures on both
sides, netted with furrows, dotted with holelets.

OBS. *Amygdalus* T. the *Drupe* is dry as leather.

Perfica T. the *Drupe* is soft as a berry.

620. PRUNUS. * *Tournef.* 398. *Armeniaca* *Tour-*
nef. 599. *Cerasus* *Tournef.* 401.
Laurocerasus *Tournef.* 403. *Padus*
edit. pr. Apricot, Plumb, Cherry,
Laurel-cherry, Bird-cherry.

CAL. *Perianth* one-leaved, bell'd, five-cleft, deciduous: the *divisions*
obtuse, concave.

COR. *Petals* five, roundish, concave, large, expanding, inserted with
claws into the calyx.

STAM *Filaments* twenty to thirty, awl'd, nearly the length of the
corol, inserted into the calyx. *Anthers* twin, short,

PIST. *Germ* above, roundish. *Style* thread-form, the length of the
stamens. *Stigma* orbicular.

PER. *Drupe* roundish.

SEED *Nut* roundish, compress'd, with prominent sutures.

Padus; Laurocerasus T. 1-6.

Armeniaca T. 7, 8.

Cerasus T. 9, 10.

Prunus T. 11, 13.

671. PLÍNIA. *Plum.* 11.

- CAL. *Perianth* one-leaved, five or four-parted: the *divisions* acute, flat, small.
 COR. five or four-petal'd: the *petals* egg'd, concave.
 STAM. *Filaments* numerous, capillary, the length of the corol. *Anthers* small.
 PIST. *Germ* above, small. *Style* awl'd, longer than the *stamens*.
Stigma simple.
 PER. *Drupe* very large, globular, furrow'd.
 SEED one, very large, globular, smooth.

621. CHRYSOBALANUS. † (*Golden-nut*) Iaco
Plum. 5. *Jacq. amer.*
 154. *Cocoa-plumb.*

- CAL. *Perianth* one-leaved, bell'd, five-cleft, (the *divisions* expanding), withering.
 COR. *Petals* five, oblong, flat, expanding, inserted with claws into the calyx.
 STAM. *Stamens* very numerous, placed in an orb, erect, inserted into the calyx. *Anthers* small, twin.
 PIST. *Germ* egg'd. *Style* the figure and length of the *stamens*.
Stigma obtuse.
 PER. *Drupe* egg'd, large, one-cell'd.
 SEED *Nut* egg'd, plough'd with five furrows, wrinkled, five-valved.

1396. SONNERATIA. S.

- CAL. *Perianth* one-leav'd, bell'd, flat, six-cleft, permanent. *Divisions* egg'd.
 COR. *Petals* six, awl'd, inserted into the base of the calyx, expanding, scarcely longer than the calyx.
 STAM. *Filaments* very numerous, inserted into the base of the calyx, thread-form, long. *Anthers* globular.
 PIST. *Germ* above, globular. *Style* thread-form. *Stigma* simple.
 PER. *Fruit* sitting on the expanded permanent calyx, globular, smooth, succulent, many-cell'd.
 SEEDS very numerous.

II. TWO FEMALES.

(Digýnia.)

622. CRATÆGUS. * *Tournef. Hawthorn.*

CAL. *Perianth* one-leaved, concave-expanding, five-cleft, permanent.

COR. *Petals* five, roundish, concave, sessile, inserted into the calyx.

STAM. *Filaments* twenty, awl'd, inserted into the calyx. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* two, thread-form, erect. *Stigmas* headed.

PER. *Berry* fleshy, roundish, navel'd.

SEEDS two, oblongish, distinct, cartilaginous.

OBS. *The number of the pistils varies.* R.

III. THREE FEMALES.

(Trigýnia.)

623. SÓRBUS. * *Tournef. Service-tree.*

CAL. *Perianth* one-leaved, concave-expanding, five-cleft, permanent.

COR. *Petals* five, roundish, concave, inserted into the calyx. *Anthers* roundish.

PIST. *Germ* beneath. *Styles* three, thread-form, erect. *Stigmas* headed.

PER. *Berry* soft, globular, navel'd.

SEEDS three, oblongish, distinct, cartilaginous.

OBS. *The number of pistils is inconstant.*

624. SESUVIUM. Halimum. *Læfl. it.* 191.

CAL. *Perianth* one-leaved, bell'd, five-parted: the *divisions* egg'd, acute, colour'd within, withering.

COR. none.

STAM. *Filaments* very numerous, awl'd, inserted into the calyx below the divisions, and shorter than the calyx. *Anthers* roundish.

PIST. *Germ* oblong, in the bottom of the calyx, three-corner'd above. *Styles* often three, capillary, erect, the length of the stamens. *Stigmas* simple.

PER. *Capsule* egg'd, three-cell'd, circumcised.

SEEDS roundish, flattish, the margin augmented with a beaklet.

IV. FIVE FEMALES.

(*Pentagýnia.*)

625. MESPILUS. * *Tournef.* 410. *Medlar.*

CAL. *Perianth* one-leaved, concave-expanding, five-cleft, permanent.

COR. *Petals* five, roundish, concave, inserted into the calyx.

STAM. *Filaments* twenty, awl'd, inserted into the calyx. *Anthers* simple.

PIST. *Germ* beneath. *Styles* five, simple, erect. *Stigmas* headed.

PER. *Berry* globular, navel'd, closed with the converging calyx, but nearly perforated in the navel.

SEEDS five, bony, gibbous.

OBS. *It is evident from what has been said, that these genera are nearly allied; Cratægus, Sorbus and Mespilus; as they can be distinguished by the number of females only, or scarcely by any sufficient mark. The leaves of the Sorbus are feather'd, of the Cratægus angled, and of the Mespilus commonly intire. The Pistils vary in number.*

626. PYRUS. * *Tournef.* 404. *Malus Tournef.* 406.
Cydonia Tournef. 405. *Pear, Apple,*
Quince.

CAL. *Perianth* one-leaved, concave, five-cleft, permanent: the *divisions* expanding.

COR. *Petals* five, roundish, concave, large, inserted into the calyx.

STAM. *Filaments* twenty, awl'd, shorter than the corol, inserted into the calyx. *Anthers* simple.

PIST. *Germ* beneath. *Styles* five, thread-form, the length of the stamens. *Stigma* simple.

PER. *Pome* roundish; navel'd, fleshy, with membranous cells, five-cell'd.

SEEDS five, oblong, obtuse, pointed at the base, convex on one side, flat on the other.

OBS. *It is wonderful that all for ages should have divided this well known genus into three, while they have constituted genera from species, and species from varieties.*

627. TETRAGONIA. * (*Four-corner.*)

CAL. *Perianth* four-leaved, above: the *leaflets* four, egg'd, flat-de-flected, revolute on the margin, colour'd, permanent.

COR. none; unless you adopt the calyx.

STAM. *Filaments* twenty, capillary, shorter than the calyx. *Anthers* oblong, incumbent.

PIST. *Germ* roundish, five-angled, beneath. *Styles* four, awl'd, re-curved, the length of the stamens. *Stigmas* lengthways on the style, pubescent.

PER. A leathery *Crust*, four-corner'd, with four longitudinal wings, (the opposite angles narrower), not gaping.

SEED one, bony, four-cell'd. *Nucleuses* oblong.

OBS. *The principal flower adds a fifth part of the number in every part of the fructification; hence it ought to be placed to the order five-females. Phil. Bot. 178.*

He now calls the fruit a Drupe. Syst. Veg. R.

628. MESEMBRYANTHEMUM. * *Dill. gen. 9. elth. 179, &c. Ficoides Tournef. A. G. 1705. Fig-marygold.*

CAL. *Perianth* one-leaved, five-cleft, above, acute, expanding, permanent.

COR. one-petal'd: *Petals* lance-lined, very numerous, growing in a manifold series, rather longer than the calyx, slightly conjoined in one by claws.

STAM. *Filaments* numerous, capillary, the length of the calyx. *Anthers* incumbent.

PIST. *Germ* beneath, with five obtuse angles, *Styles* oftner five, awl'd, erect-reflected. *Stigmas* simple.

PER. *Capsule* fleshy, roundish, with a navel mark'd with rays, cells answering the number of styles.

SEEDS very numerous, roundish.

The M. geniculiflorum, (joint-flowering) noctiflorum (night-flowering) tortuosum (tortuous) are four-female.

The M. linguiforme (tongue-form) pomeridianum (afternoon) pugioniforme (dagger-form) barbatum (bearded) aciniforme (berry-form) loreum (strap) are ten-female.

629. AIZOON. * *Ficoidea Niss. A. G. 1711. Dill. gen. 12. elth. 177.*

CAL. *Perianth* one-leaved, five-parted: the *divisions* lanced, permanent.

COR. none.

STAM. *Filaments* very numerous; capillary, inserted into the sinus of the calyx by phalanxes, not equally distributed on the receptacle. *Anthers* simple.

PIST. *Germ* five-corner'd, above. *Styles* five, simple. *Stigmas* simple.

PER. *Capsule* bellied, retuse, five-corner'd, five-cell'd, five-valved.

SEEDS many, roundish.

OBS. *The essential character consists in the stamens being inserted by phalanxes into the sinuses of the calyx, commonly three everywhere approximated.*

630. SPIRÆA. * *Tournef.* 389. *Filipendula Tournef.* 150. *Ulmaria Tournef.* 141. *Aruncus edit. pri. Meadow-sweet. Dropwort.*

CAL. *Perianth* one-leaved, five-cleft, flat at the base, (the divisions acute), permanent.

COR. *Petals* five, inserted into the calyx, oblong-rounded.

STAM. *Filaments* more than twenty, thread-form, shorter than the corol, inserted into the calyx. *Anthers* roundish.

PIST. *Germes* five or more. *Styles* as many, thread-form, the length of the stamens. *Stigmas* headed.

PER. *Capsule* oblong, pointed, compress'd, two-valved.

SEEDS few, pointed, small.

OBS. *Filipendula T. with very numerous Capsules digested in an orb.*

Ulmaria T. with very numerous contorted Capsules like the Helicteres.

Aruncus differs from the rest in a two-house fructification.

Opulifolia is three-female.

V. MANY FEMALES.

(*Polygynia.*)

631. RÓSA. *Tournef.* 408. *Rose.*

CAL. *Perianth* many-leaved, with a bellied tube: the neck contracted, globular with a five-parted expanding Border: the divisions long, lance-narrow (in some of which there are two alternate ones appendaged on each side; two other alternate ones naked on each side; the fifth then only appendaged).

COR. *Petals* five, inverse-hearted, the length of the calyx, inserted into the neck of the calyx.

STAM. *Filaments* very numerous, capillary, very short, inserted into the neck of the calyx. *Anthers* three-corner'd.

PIST. *Germes* numerous, in the bottom of the calyx. *Styles* as many, villous, very short, straitly compressed in the neck of the calyx, inserted into the side of the germ. *Stigmas* obtuse.

PER. *Berry* fleshy, top-shape, colour'd, soft, one-cell'd, crown'd with rude divisions, contracted in the neck, made from the tube of the calyx.

SEEDS numerous oblong, hispid, affixed to the interior side of the calyx.

OBS. Calyx of the pericarp counterfeits a berry.

632. RU-

346 TWENTY MALES. MANY FEMALES.

632. RÚBUS. * *Tournef.* 385. *Raspberry.*

CAL. *Perianth* one-leaved, five-cleft: the *divisions* oblong, expanding, permanent.

COR. *Petals* five, roundish, the length of the calyx, erect-expanding.

STAM. *Filaments* numerous, shorter than the corol, inserted into the calyx. *Anthers* roundish, compress'd.

PIST. *Germes* numerous. *Styles* small, capillary, arising from the side of the germ. *Stigmas* simple, permanent.

PER. *Berry* compound: the roundish grains collected into a convex head, which is concave beneath: each one-cell'd.

SEEDS solitary, oblong. *Receptacle* of the pericarps conic.

OBS. The grains of the Berries are coalesced into a compound berry, not distinguishable without laceration.

R. *Saxatilis* (rock) bears berries with distinct grains.

R. *Chamæmorus* is of the class one-house.

633. FRAGÁRIA. * *Tournef.* 152. *Strawberry.*

CAL. *Perianth* one-leaved, flat, ten-cleft: the *alternate divisions* exterior, narrower.

COR. *Petals* five, roundish, expanding, inserted into the calyx.

STAM. *Filaments* twenty, awl'd, shorter than the corol, inserted into the calyx. *Anthers* mooned.

PIST. *Germes* numerous, very small, collected into a head. *Styles* simple, inserted into the side of the germ. *Stigmas* simple.

PER. none. The *Berry* becomes the common *Receptacle* of the seeds round-egg'd, pulpy, soft, large, colour'd, lop'd at the base, deciduous.

SEEDS numerous, very small, pointed, scattered on the superficies of the receptacle.

OBS. This common *Receptacle* is commonly called the *Berry*.

634. PO-

634. **POTENTILLA.** * *Quinquefolium Tournesf.*
 153. *Pentaphylloides Tournesf. ibidem. Cinquefoil.*

CAL. *Perianth* one-leaved, flattish, ten-cleft: the *alternate divisions* less, reflected.

COR. *Petals* five, roundish, expanding, inserted by claws into the calyx.

STAM. *Filaments* twenty, awl'd, shorter than the corol, inserted into the calyx. *Anthers* moon-elongated.

PIST. *Germes* numerous, very small, collected into a head. *Styles* thread-form, the length of the stamens, inserted into the side of the germ. *Stigma* obtuse.

PER. none. *Common Receptacle of the seeds* roundish, juiceless, very small, covered with seeds, included in the calyx.

SEEDS numerous, pointed.

OBS. *Take away a fifth part of the number in all the parts of the fructification, and you will have the Tormentilla. c. gr.*

635. **TORMENTILLA.** * *Tournesf.* 153. *Tormentil.*

CAL. *Perianth* one-leaved, flat, eight-cleft: the *alternate divisions* less acuter.

COR. *Petals* four, inverse-hearted, flat, expanding, inserted by claws into the calyx.

STAM. *Filaments* sixteen, awl'd, shorter by half than the corol, inserted into the calyx. *Anthers* simple.

PIST. *Germes* eight, small, converging to a head. *Styles* thread-form, the length of the stamens, inserted into the side of the germ. *Stigma* obtuse.

PER. none. *Receptacle of the seeds* very small, laden with seeds, included in the calyx.

SEEDS eight, roundish, naked.

OBS. *Tormentilla differs from Potentilla in number only; hence both genera may be combined.*

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636. GÉUM. * *Caryophyllata Tournef.* 151. *A.*
D. F. G. Avern.

CAL. *Perianth* one-leaved, ten-cleft, erectish : the *alternate divisions* very small, acute.

COR. *Petals* five, rounded : the *claws* the length of the calyx, narrow, inserted into the calyx.

STAM. *Filaments* numerous, awl'd, the length of the calyx, into which they are inserted. *Anthers* short, broadish, obtuse.

PIST. *Germes* numerous, collected into a head. *Styles* inserted into the side of the germ, hairy, long. *Stigmas* simple.

PER. none. *Common Receptacle of the seeds* oblong, shaggy, placed on the reflected calyx.

SEEDS numerous, compressed, hispid, joint-awn'd with a long *style*.

637. DRYAS. *

CAL. *Perianth* one-leaved, eight or five-parted : the *divisions* expanding, linear, obtuse, equal, rather shorter than the corol.

COR. *Petals* eight or five, oblong, end-nick'd, expanding, inserted into the calyx. *Anthers* small.

PIST. *Germes* many, crowded, small. *Styles* capillary, inserted into the side of the germ, *Stigmas* simple.

PER. none.

SEEDS numerous, roundish, compressed, furnished with very long wool-bearing *Styles*.

638. CÔ-

638. CÔMARUM. * *Marsh-Cinquefoil.*

- CAL. *Perianth* one-leaved, ten-cleft, very large, expanding, coloured, (the *alternate divisions* less, inferior), permanent.
- COR. *Petals* five, oblong, pointed, three times less than the calyx, into which they are inserted.
- STAM. *Filaments* twenty, awl'd, inserted into the calyx, the length of the corol, permanent. *Anthers* mooned, deciduous.
- PIST *Germes* numerous, roundish, very small, collected into a head. *Styles* simple, short, from the side of the germ. *Stigmas* simple.
- PER. none. *Common Receptacle of the seeds* egg'd, fleshy, very large, permanent.
- SEEDS numerous, pointed, covering the receptacle.

639. CALYCÁNTHUS. † *Beureria Ebret. Butneria Du Hamel. Basteria Miller Virginian Allspice.*

- CAL. *Perianth* one-leaved, pitcher'd, scaly: the *leaflets* coloured, lanced: the superior ones gradually larger, counterfeiting the petals.
- COR. none, except the calyx-leaflets counterfeiting the petals.
- STAM. *Filaments* numerous, awl'd, inserted into the neck of the calyx. *Anthers* oblong, furrow'd, growing to the top of the filaments.
- PIST. *Germes* very numerous, ending in *styles* awl'd, compressed, the length of the stamens. *Stigmas* glandular.
- PER. none. *Calyx* thickened, inverse-egg'd, berried.
- SEEDS very numerous, tailed.

C L A S S XIII.

MANY MALES.

(Polyándria.)

I. ONE FEMALE.

(Monogýnia.)

640	Marcgrávia.	657	Óchna.
1397	Ternstrómia.	659	Grías.
1398	Alstónia.	658	Calophýllum.
1313	Trílix.	1400	Sparrmânia.
641	Rheédia.	1401	Valléa.
643	Cápparis.	660	Tília.
644	Actæa.		Cleyéra.
645	Sanguinária.	661	Lætia.
646	Podophýllum.	663	Elæocárpus.
647	Chelidónium.	664	Lécythis.
648	Papáver.	672	Delíma.
649	Argemóne.	666	Vatéria.
650	Cambógia.	670	Mentzelia.
651	Muntingia.	1286	Lóofa.
652	Sarracénia.	667	Lagerstrómea.
653	Nymphæa.	668	Théa.
654	Bíxa.	669	Caryophýllus.
655	Sloanéa.	673	Cístus.
1239	Treívia.	674	Próckia.
656	Mamméa.	675	Córchorus.
	Baringtóna.	676	Seguíenia.

II. TWO

II. TWO FEMALES.
(Digýnia.)

- 678 Pæonia.
679 Curatélla.
1346 Fothergílla.
980 Callígonum.

III. THREE FEMALES.
(Trigýnia.)

- 681 Delphínium.
682 Aconítum.

IV. FOUR FEMALES.
(Tetrágýnia.)

- 683 Tetrácera.
1314 Caryócar.
1282 Cimicífuga.

V. FIVE FEMALES.
(Pentagýnia.)

684. Aquilégia.
685 Nigélla.
686 Reaumúria.
1402 Bráthys.

VI. SIX FEMALES.
(Hexagýnia.)

- 687 Stratiótes.

VII. MANY FEMALES.
(Polygýnia.)

- 1403 Wintéra.
688 Dillénia.
611 Illicium.
689 Liriodéndron.
690 Magnólia.
691 Michélie.
692 Uvária.
693 Annóna.
1404 Unóna.
694 Anemóne.
695 Atrágene.
696 Clématis.
697 Thalíctrum.
698 Adónis.
699 Ranúnculus.
700 Tróllius.
701 Isopýrum.
702 Helléborus.
703 Cáltha.
Houtuýnia.
704 Hydrástis.

MANY

M A N Y M A L E S.

(Polyandria.)

I. O N E F E M A L E

(Monogynia.)

640. MARCGRÁVIA. † *Plum.* 29. *Jacq. amer.*
156.CAL. *Perianth* six-leaved, imbricated, permanent: the *leaflets* roundish, concave: the two outmost larger.

COR. one-petal'd, cone-egg'd, intire, closed like a calyptré, parting from the base, falling off.

STAM. *Filaments* very numerous, awl'd, short, expanding, deciduous. *Anthers* erect, large, egg-oblong.PIST. *Germ* egg'd. *Style* none. *Stigma* headed, permanent.PER. *Berry* leathery, globular, many-cell'd, many-valved.

SEEDS numerous, small, oblong, nestling in the soft pulp.

1397. TERNSTRÓMIA. *Mutis.* S.CAL. *Interior Perianth* one-leaved, five-parted, on which two less *scales* are incumbent: the *divisions* all orbicular, concave, permanent.COR. one-petal'd, bell'd. *Tube* none. *Border* five-parted, rarely six-parted: the *divisions* orbicular, concave, end-nick'd, longer than the calyx.STAM. *Filaments* numerous, inserted into the base of the corol, thread-form, in a double series, shorter than the corol. *Anthers* linear, erect, the length of the filaments.PIST. *Germ* above, roundish. *Style* cylindric, the length of the stamens. *Stigma* headed.PER. *Berry* juiceless, egg'd, polish'd, two-cell'd, valveless.

SEEDS nearly eight-corner'd, convex, then flat.

1398. AL-

1398. ALSTONIA. *Mutis. S.*

CAL. *Perianth* beneath, imbricated. *Scales* egg'd, concave, most obtuse: the *internal ones* gradually larger, forming as it were a four or five-parted calyx.

COR. one-petal'd, shorter than the calyx. *Tube* short. *Border* expanding, eight or ten-parted: the *divisions* equal, placed in a double series, the alternate ones more interior, inverse-egg'd, obtuse, most intire.

STAM. *Filaments* very numerous, inserted into the tube, very short, imbricated, very smooth: the *exterior ones* longer, linear, attenuated at the top. *Anthers* orbicular, furrow'd.

PIST. *Germ* above, egg'd, small. *Style* simple, the length of the corol, thread-form, erect. *Stigma* inverse-egg-headed.

PER. - - - - -

SEEDS - - - - -

1313. TRILIX. *Jacquinia. Mutis.*

CAL. *Perianth* three-leaved: the *leaflets* egg'd, acute, expanding, flat, permanent.

COR. *Petals* three, lanced, acute, less than the calyx.

STAM. *Filaments* numerous, capillary, the length of the corol. *Anthers* roundish, twin, minute.

PIST. *Germ* five-corner'd. *Style* cylindric. *Stigma* simple.

PER. *Berry* nearly five-corner'd, five-cell'd, covered with the calyx.

SEEDS numerous, roundish, minute.

641. RHEEDIA. *Vanrheedia Plum. 18.*

CAL. none.

COR. *Petals* four, inverse-egg'd, concave, expanding.

STAM. *Filaments* very numerous, thread-form, longer than the corol. *Anthers* oblong.

PIST. *Germ* globular. *Style* cylindric, the length of the stamens. *Stigmas* funnel-form.

PER. egg'd, small, succulent, one-cell'd.

SEEDS three, egg-oblong, marked with characters, very large.

643. CAPPARIS, * *Tournef.* 139. *Breynia Plum.*
II. *Caper-bush.*

CAL. *Perianth* four-leaved, leathery: the *leaflets* egg'd, concave, gibbous.

COR. *Petals* four, obtuse, expanding, very large.

STAM. *Filaments* numerous, thread-form, expanded. *Anthers* oblong, versatile, inclining.

PIST. *Germ* pedicel'd. *Style* none. *Stigma* obtuse, sessile.

PER. *Berry* barky, one-cell'd, pedicel'd.

SEEDS numerous, kidney-form, nestling.

OBS. *The figure of the fruit is very different in different species.*

644. ACTÆA. * *Christophoriana Tournef.* 154.
Herb Christopher.

CAL. *Perianth* four-leaved: the *leaflets* roundish, obtuse, concave, falling off.

COR. *Petals* four, pointed at both ends, larger than the calyx, falling off.

STAM. *Filaments* very numerous, (often thirty), capillary, broader upwards. *Anthers* roundish, twin, erect.

PIST. *Germ* egg'd. *Style* none. *Stigma* thickish, obliquely depresso.

PER. *Berry* globe-oval, smooth, one-furrow'd, one-cell'd.

SEEDS very numerous, semiorbicular, incumbent in a double order.

OBS. *A. racemosa (racemed) has the fruit leathery, not pulpy.*

645. SANGUINARIA. * *Dill. elth.* 252. *Bloodwort. Puccoon.*

CAL. *Perianth* two-leaved, egg'd, concave, shorter than the corol, falling off.

COR. *Petals* eight, oblong, obtuse, most-expanding: the *alternate ones* interior, narrower.

STAM. *Filaments* very numerous, simple, shorter than the corol, *Anthers* simple.

PIST. *Germ* oblong, compress'd. *Style* none. *Stigma* thickish, two-furrow'd with a stria, the height of the stamens, permanent.

PER. *Capsule* oblong, bellied, acute at both ends, two-valved.

SEEDS very numerous, round, pointed.

646. **PODOPHYLLUM.** * *Anapodophyllum*,
(*Foot-leaf*) *Tournef.*
122. *Duck's-foot*.

CAL. *Perianth* three-leaved, large, coloured, concave-erect: the *leaflets* egg'd, concave, deciduous.

COR. *Petals* nine, orbicular, concave, plaited on the margin.

STAM. *Filaments* very numerous, most short. *Anthers* oblong, large, erect.

PIST. *Germ* roundish. *Style* none. *Stigma* obtuse, plaited.

PER. *Berry* egg'd, crowned with the stigma, one-cell'd.

SEEDS very numerous, roundish. *Receptacle* free.

647. **CHELIDONIUM.** * *Tournef.* 116. *Glaucium* *Tournef.* 130. *Celandine*. *Horned Poppy*.

CAL. *Perianth* two-leaved, roundish: the *leaflets* rather egg'd, concave, obtuse, falling off.

COR. *Petals* four, roundish, flat, expanding, large, narrower at the base.

STAM. *Filaments* numerous, (thirty), flat, broader upwards, shorter than the corol. *Anthers* oblong, compress'd, obtuse, erect, twin.

PIST. *Germ* cylindric, the length of the stamens. *Style* none. *Stigma* headed, two-cleft.

PER. *Siliqua* cylindric, rather two-valved,

SEEDS very numerous, egg'd, increased, glossy, *Receptacle* linear, between the valvelets like a circumambient suture, not gaping.

OBS. *It differs from the Poppy in the siliquous pericarp.*

Cheledonium T. has the *siliqua* one-cell'd.

Glaucium T. has a two-capsuled *siliqua*.

Ch. hybridum (mule) has a three-valved *siliqua*.

648. PAPAVER. * *Tournef.* 119. *Poppy.*

CAL. *Perianth* two-leaved, egg'd, end-nick'd: the *leaflets* rather egg'd, concave, obtuse, falling off.

COR. *Petals* four, roundish, flat, expanding, large, narrower at the base: the *alternate ones* less.

STAM. *Filaments* numerous, capillary, much shorter than the corol. *Anthers* oblong, compress'd, erect, obtuse.

PIST. *Germ* roundish, large. *Style* none. *Stigma* targetted, flat, ray'd.

PER. *Capsule* crowned with the flat, large stigma, one-cell'd, half-many-cell'd, gaping at the top with numerous perforations under the crown.

SEEDS numerous, very small. *Receptacles*; longitudinal plaits, the number of the rays of the stigma, growing to the side of the pericarp.

OBS. The Pericarp differs in the variation of its figure from globular and oblong, and in the rays of the stigma. The primary division of the species is to be taken from the polished and hispid pericarps.

649. ARGEMONE. * *Tournef.* 121. *Prickly Poppy.*

CAL. *Perianth* three-leaved, roundish: the *leaflets* roundish with a point, concave, falling off.

COR. *Petals* six, roundish, erect-expanding, larger than the calyx.

STAM. *Filaments* numerous, thread-form, the length of the calyx. *Anthers* oblong, erect.

PIST. *Germ* egg'd, five-angled. *Style* none. *Stigma* thickish, obtuse, reflected, five-cleft, permanent.

PER. *Capsule* egg'd, five-angled, one-cell'd, semivalved.

SEEDS numerous, very small. *Receptacles* linear, adjoined to the angles of the pericarp, not gaping.

OBS. The semivalved Capsule distinguishes it from the Poppy.

Argemone 2 is mostly three-valved, 3 four-valved, 1 six-valved.

650. CAM-

650. CAMBÓGIA. * *Gamboge*.

CAL. *Perianth* four-leaved: the *leaflets* roundish, concave, deciduous.

COR. *Petals* four, oblong-roundish, concave; with oblong claws.

STAM. *Filaments* very numerous, short. *Anthers* roundish.

PIST. *Germ* roundish, striated. *Style* none. *Stigma* four-cleft, obtuse, permanent.

PER. *Pome* roundish, eight-angled, eight-cell'd.

SEEDS solitary, oblong, kidney-form, rather compress'd.

651. MUNTÍNGIA. † *Plum.* 6. *Jacq. amer.* 166.

CAL. *Perianth* one-leaved, five-parted, concave at the base: the *divisions* lanced, pointed, large, deciduous.

COR. *Petals* five, roundish, expanding, inserted into the calyx.

STAM. *Filaments* very numerous, capillary, very short. *Anthers* roundish.

PIST. *Germ* globular, cloathed with hairs. *Style* none. *Stigma* headed, five-cornered, ray'd, permanent.

PER. *Berry* globular, navel'd with the stigma, five-cell'd.

SEEDS numerous, roundish, very small, nestling.

652. SARRACÉNIA. † *Tournef.* 476. *Side-saddle-flower*.

CAL. *Perianth* double.

Inferior P. three-leaved: the *leaflets* egg'd, very small, deciduous.

Superior P. five-leaved; the *leaflets* rather egg'd, very large, colour'd, deciduous.

COR. *Petals* five, egg'd, inflected, covering the stamens: the claws egg-oblong, straight.

STAM. *Filaments* numerous, small. *Anthers* simple.

PIST. *Germ* roundish. *Style* cylindric, very short. *Stigma* shield-like, targetted, five-angled, covering the stamens, permanent.

PER. *Capsule* roundish, five-cell'd.

SEEDS very numerous, roundish, pointed, small.

653. NYMPHÆA. * *Tournef.* 137, 138. *Nelumbo Tournef. Water-Lily.*

CAL. *Perianth* beneath, four-leaved, large, coloured above, permanent.

COR. *Petals* numerous (often fifteen), sitting on the side of the germ, in more than a simple series.

STAM. *Filaments* numerous (often seventy), flat, curved, obtuse, short. *Anthers* oblong, growing to the margin of the filaments.

PIST. *Germ* egg'd, large. *Style* none. *Stigma* orbicular, flat, target- sessile, marked with rays, notch'd on the margin, permanent.

PER. *Berry* hard, egg'd, fleshy, rude, narrow'd in the neck, crowned at the top, many-cell'd (ten to fifteen-cell'd) full of pulp.

SEEDS very numerous, roundish.

N. lutea (yellow) differs from the rest in its 5-leaved calyx, its roundish leaflets, and very small petals.

Nelumbo has the *Pericarp* top-shape, lop'd, with one-seeded cells, and proper perforations gaping along the disk.

654. BIXA. † *Anotta.*

CAL. *Perianth* five-tooth'd, very small, obtuse, flat, permanent.

COR. double.

The exterior one with five petals, oblong, equal, large, ruder.

The interior with five petals, similar to the exterior, slenderer.

STAM. *Filaments* numerous, bristly, shorter by half than the corol. *Anthers* erect.

PIST. *Germ* egg'd. *Style* thread-form, the length of the stamens. *Stigma* parallelly two-cleft, compressed.

PER. *Capsule* egg-hearted, compressed, fenced with bristles, two-valved, gaping at the angles, one-cell'd, the interior membrane two-valved.

SEEDS numerous, top-shape, the navel lop'd. *Receptacle* linear, longitudinal, adjoined to the middle of the valvelets.

655. STO.

655. SLOANÉA. † *Læfl. it.* 311. *Sloana Plum.*
15. *Apeiba of Brasil.*

CAL. *Perianth* five-leaved: the *leaflets* deciduous.

COR. five-petal'd.

STAM. *Filaments* many, awl'd, broader upwards, the length of the calyx: the exterior ones sterile, leafy. *Anthers* growing to the side of the filaments.

PIST *Germ* immersed in the calyx. *Style* awl'd, longer than the stamens. *Stigma* perforated.

PER. *Capsule* large, roundish, hedg-hog'd, berried within, gaping.

SEEDS numerous: with oblong *nucleuses*.

OBS. *The description of Læflingius agrees with this.*

1239. TREWIA.

CAL. *Perianth* three-leaved: the *leaflets* egg'd, reflected, coloured, permanent.

COR. none unless you assume the calyx.

STAM. *Filaments* numerous, capillary, the length of the calyx. *Anthers* simple.

PIST. *Germ* beneath. *Style* simple, the length of the stamens. *Stigma* simple.

PER. *Capsule* top-shape, three-sided, crown'd, three-cell'd, three-valved.

SEEDS solitary, convex on one side, angular on the other.

OBS. *I suspect there are flowers purely male.*

656. MAMMÉA. † Jacq. amer. 268. Mamei
Plum. 4. Mammee.

CAL. *Perianth* one-leaved, two-parted: the *leaflets* egg'd, concave, leathery, coloured, deciduous.

COR. *Petals* four, roundish, concave, expanding, larger than the calyx.

STAM. *Filaments* very numerous, capillary, very short, *Anthers* oblong, erect.

PIST. *Germ* roundish, depressed. *Style* cylindric, longer than the *stamens*. *Stigma* headed, convex, permanent.

PER. *Berry* fleshy, very large, pointed with the style, spherical, one-cell'd.

SEEDS four, rather egg'd, rugged.

OBS. Jacquin observed male flowers in the same or a separate plant.

BARINGTONA. Thunberg. nov. gen. p. 46.

CAL. *Perianth* above, permanent, green, smooth, two-leaved: *leaflets* egg'd, concave, permanent.

COR. four-petal'd, *Petals* egg-oblong, intire, falling off, twice as long as the calyx.

Nectary conic, tubular, clothing the base of the style, tooth'd at top with many toothlets, unequal.

STAM. *Filaments* very numerous, inserted into the receptacle, capillary, longer than the corol, fleshy, falling off. *Anthers* roundish, minute, yellow with black lines.

PIST. *Germ* beneath, margin'd, flat. *Style* thread-form, the length of the *stamens*. *Stigma* simple.

PER. *Drupe* egg'd, cone-quadrangular, attenuated at top, crown'd with the calyx. *Nut* egg'd, bony, fibre-wrinkled without, four-cell'd. *Nucleus* solitary, egg'd, wrinkled.

SEEDS - - -

657. ÓCHNA. † Jabotapita Plum. 32.

CAL. *Perianth* five-leaved: the *leaflets* egg'd, expanding, small, permanent.

COR. *Petals* five, roundish, with claws the length of the calyx, expanding, most obtuse.

STAM. *Filaments* numerous, short, converging. *Anthers* roundish.

PIST. *Germ* egg'd, ending in a straight, awl'd *Style*. *Stigma* simple.

PER. *Receptacle* roundish, lop'd, fleshy, very large: in which there are from two *berries* to five, egg'd, distant, immersed at the base.

SEED solitary, egg'd.

659. GRÍAS. †

CAL. *Perianth* one-leaved, cup-form: the mouth four-cleft, and then lacerated.

COR. *Petals* four, roundish, concave, leathery.

STAM. *Filaments* numerous, bristly, longer than the corol, inserted into the receptacle. *Anthers* roundish.

PIST. *Germ* somewhat depressed, immersed in the calyx. *Style* none. *Stigma* thickish, four-cornered, cross-excavated.

PER. *Drupe* large, one-cell'd, pointed at the top and base.

SEED *Nucleus* ploughed with eight furrows.

658. CALOPHYLLUM. (*Fine-leaf.*) Jacq. amer.
269. Calaba Plum.

CAL. *Perianth* four-leaved: the *leaflets* egg'd, concave, coloured, deciduous; the two exterior ones shorter.

COR. *Petals* four, oblong, concave, expanding.

STAM. *Filaments* many, (10 Jacq.), thread-form, short. *Anthers* erect, oblong.

PIST. *Germ* roundish. *Styles* thread-form, the length of the stamens. *Stigma* headed, obtuse.

PER. *Drupe* globular.

SEED *Nut* globular, rather pointed, very large.

OBS. *Jacquin* observed separate male flowers.

1400. SPARMANNIA. S.

- CAL. *Perianth* beneath, four-leaved: the *leaflets* equal, lanced, intire, reflected.
- COR. *Petals* four, equal, wedg-form, flat, intire, reflected upwards, closely appressed to the receptacle, longer than the calyx. The Proper *Nectaries* thread-form, irregular, wreathed, shorter than the stamens. The *wreaths* inflated, top-shape.
- STAM. *Filaments* very numerous, distinct, thread-form, the exterior ones resembling the nectaries, but longer, shorter than the corol. *Anthers* heart-egg'd, sitting,
- PIST. *Germ* above, subglobular, five-angled, hispid. *Style* thread-form, straight, depending among the stamens, much longer than the stamens. *Stigma* lop'd, terminated by elongated nipples.
- PER. *Capsule* five-angled, hedg-hog'd. The *Bristles* longer, expanding, straight, rigid, hairy, larger in the angles, terminated by a thorn; the *Thorn* pellucid, straight, pungent.
- SEEDS two in each cell, oblong, smooth, keel'd on one side.
- OBS. *This genus therefore differs in most things from Triumphetta, whose habit it has in respect to the herb; but the inflorescence is like the geranium, although the Capsule is hedg-hog'd, yet it is not hook'd. The genus is also well distinguished by its singular nectaries, I need not say the number of its parts is very different and constant.*

1401. VALLÉA. Mutis. S.

- CAL. *Perianth* four or five-leaved: the *leaflets* egg-lanced, striated, colour'd, deciduous.
- COR. *Petals* four or five, inverse-egg'd, three-cleft, larger than the expanded calyx.
- Nectary* a flattish margin, waved on the margin, glossy, coloured.
- STAM. *Filaments* many, thirty to forty, flattish, coloured, incurved, in a simple series, inserted into the receptacle beneath the nectary, short. *Anthers* linear, erect, twice-perforated at the top.
- PIST. *Germ* above, egg'd. *Style* columnarish, the length of the flower. *Stigma* four or five-cleft, slender.
- PER. *Capsule* four or five-angled: the *Cells* two-cell'd.
- SEEDS many.

666. TÍLIA. * *Tournef.* 381. *Lime-tree.*

CAL. *Perianth* five-parted, concave, coloured, nearly the size of the corol, deciduous.

COR. *Petals* five, oblong, obtuse, notch'd at the top.

STAM. *Filaments* very numerous (thirty and more) awl'd, the length of the corol. *Anthers* simple.

PIST. *Germ* roundish. *Style* thread-form, the length of the stamens. *Stigma* five-corner-obtuse.

PER. *Capsule* leathery, globular, five-cell'd, five-valved, gaping at the base.

SEEDS solitary, roundish.

OBS. *One Seed commonly comes to maturity, and forces the other abortive ones to the side; so that it seems a one-cell'd Capsule to the incurious.*

T. americana (american) has five scales placed round the germ, annexed by claws to the corol. D. Kalm.

CLEYÉRA. *Thunberg. Flor. Japan. p. 12.*

CAL. *Perianth* one-leaved, leathery, smooth, permanent, shorter than the corol; 5-parted; the *divisions* egg'd, rounded.

COR. 5-petal'd. *Petals* egg'd, obtuse.

STAM. *Filaments* about 30, inserted on the sides of the germ, capillary, unequal, sometimes cohering very slightly at the base, much shorter than the corol. *Anthers* awl'd, twin, shaggy.

PIST. *Germ* above, convex. *Style* one, simple, thread-form, longer than the stamens. *Stigma* end-nick'd.

PER. *Capsule* egg'd, acute, smooth, surrounded with the permanent reflected calyx, two-valved, two-cell'd, the size of a small pea.

SEED - - -

661. LAËTIA. † *Læff. it. 190. Jacq. amer.*
167.

CAL. *Perianth* five-leaved: the *leaflets* oblong, concave, reflected, coloured, withering.

COR. none, or *Petals* five.

STAM. *Filaments* numerous, capillary, rather shorter than the calyx. *Anthers* roundish.

PIST. *Germ* oblong, ending in a thread-form *Style*, longer than the stamens. *Stigma* headed, depressed.

PER. *Berry* globular, three-cornered, plough'd with three lines, one-cell'd, increased internally by a cartilaginous membrane.

SEEDS many, nestling, angular, clothed with a pulpy aril.

L. completa (complete) is five-petal'd, with a three-valved capsule.

L. apetala (petalless) has a fleshy berry.

663. ELÆOCÁRPUS. † *Burm. Oil-fruit.*

CAL. *Perianth* five-leaved: the *leaflets* lanced, acute, equal.

COR. *Petals* five, jag-lacerated, equal, the length of the calyx.

STAM. *Filaments* twenty, very short, affixed to the receptacle. *Anthers* linear, shorter than the corol.

PIST. *Germ* pointed. *Style* thread-form, the length of the stamens. *Stigma* acute.

PER. *Drupe* round.

SEED *Nucleus* curled, spherical.

OBS. The number often loses a fifth in the parts of the flower.

664. LÉCYTHIS. *Læfl.* 189. *Jacq. amer.* 168.

CAL. *Perianth* six-leaved: the *leaflets* roundish, concave, permanent.

COR. *Petals* six, oblong, obtuse, flat, very large: of which the two superior are most expanding.

Nectary petal-form, one-leaved, tongued: flat at the base, perforated for the germ, margined: *The tonguelet* inflected upwards from the inferior side of the flower: linear, convex without, thick at the top, egg'd, covering the fructification with the stamens.

STAM. *Filaments* very copious, every where inserted into the interior disk of the base of the nectary, very short, thicker upwards. *Anthers* oblong, small.

PIST. *Germ* depressed, pointed, girt with the receptacle of the flower. *Style* very short. *Stigma* obtusish, conic.

PER. roundish at the base, woody, girt above with the rudiments of the calyx, lop'd, nearly four-cell'd, circumcised, with an orbicular cover.

SEEDS many, glossy, with a rugged margin.

672. DELÍMA.

CAL. *Perianth* five-leaved: the *leaflets* egg'd, obtuse, equal, permanent.

COR. none.

STAM. *Filaments* numerous, capillary, subequal to the calyx. *Anthers* roundish.

PIST. *Germ* nearly egg'd. *Style* cylindric, the length of the flower. *Stigma* simple, permanent,

PER. *Berry* larger than the calyx, egg'd, pointed, two-valved.

SEEDS two.

OBS. Rheedi makes his *five-male*; it is therefore doubtful.

666. VATÉRIA.

CAL. *Perianth* five-cleft, acute, small, permanent.

COR. *Petals* five, egg'd, expanding.

STAM. *Filaments* numerous, shorter than the corol. *Anthers* simple.

PIST. *Germ* roundish. *Style* simple, short. *Stigma* headed.

PER. *Capsule* top-shape, leathery, sitting on the reflected calyx, marked with three sutures, one-cell'd, three-valved.

SEED one, egg'd.

670. MENT-

676. MENTZELIA. *Plum. 6. Jacq. amer. 164.*

CAL. *Perianth* five-leaved, expanding, above, deciduous: the *leaflets* lanced, concave.

COR. *Petals* five, bristly, erect: the exterior ones membranous upwards. *Anthers* roundish.

PIST. *Germ* cylindric, very long, beneath. *Style* bristly, the length of the corol. *Stigma* simple, obtuse.

PER. *Capsule* cylindric, long, one-cell'd, three-valved at the top.

SEEDS many, oblong, angular.

1286. LOOSA. *Auct. Cl. Jacquinio.*

CAL. *Perianth* five-leaved, above, permanent: the *leaflets* lanced, most expanding: with reflected sides.

COR. *Petals* five, inverse-egg'd, cowl'd, large, most expanded, attenuated to claws at the base.

Nectary five leaflets, alternating with the petals, converging to an acute cone, rather shorter than the corol, lanced, wrinkled, awn'd with a double filament.

STAM. *Filaments* numerous, capillary, longer than the nectary, 15-17 to every petal. *Anthers* incumbent, roundish.

PIST. *Germ* nearly egg'd, half-beneath. *Style* thread-form, erect, the length of the stamens. *Stigma* simple, obtuse.

PER. *Capsule* top shape, one-cell'd, three-valved at the top: the *valvelets* half-egg'd, acute, expanded.

SEEDS numerous, egg'd, small. *Receptacles* three, linear, capsules longitudinal.

OBS. *In affinity it approaches to Mentzelia.*

667. LAGERSTRÖMIA.

CAL. *Perianth* one-leaved, six-cleft, bell'd, acutish, polish'd.

COR. *Petals* six, egg'd, obtuse, curled, waved, contorted: the *claws* thread-form, longer than the calyx, inserted into the receptacle.

STAM. *Filaments* very numerous, thread-form, longer than the calyx, the *six* exterior of these are twice as thick, longer than the petals. *Anthers* oval, incumbent.

PIST. *Germ* subglobular. *Style* thread-form, the length of the larger stamens. *Stigma* simple.

PER. - - - - -

SEED - - - - -

668. THÉA.

668. THÉA. † *Kæmpf. Tea-tree.*

CAL. *Perianth* five or six-leaved, very small, flat: the *leaflets* round, obtuse, permanent.

COR. *Petals* six, roundish, concave, equal, large.

STAM. *Filaments* numerous, (about two hundred), thread-form, shorter than the corol. *Anthers* simple.

PIST. *Germ* globe-threecorner'd. *Style* awl'd, the length of the stamens. *Stigma* tripple.

PER. *Capsule* of three globes coalesced, three-cell'd, gaping three ways at the top.

SEEDS solitary, globular, angular within.

OBS. *The given character has obtained in most flowers; but I have seen other flowers on a separate tree, called by Hile T. viridis (green), in which.*

CAL. *Perianth* five-leaved, very small: the *leaflets* orbicular, permanent.

COR. *The exterior petals* three, equal, of middle size: the *interior* six, equal, very large.

The Styles three, conglutinated, not simple, *Letson. Syst. Veg.* 412. R.

669. CARYOPHYLLUS. † *Caryophyllus aromaticus Tournef. 432.*

Caryophyllodentron.

Vail. A. G. 1722.

Clove-tree.

CAL. *Perianth of the fruit* above, four-parted, acute, small, permanent.

Perianth of the flower above, four-leaved: the *leaflets* roundish, concave, deciduous.

COR. *Petals* four, roundish, notch'd, less than the calyx of the flower.

STAM. *Filaments* numerous, capillary, *Anthers* simple.

PIST. *Germ* beneath, oblong, large, terminated by the calyx of the fruit. *Style* simple, inserted into the four-angled receptacle. *Stigma* simple.

PER. oval, one-cell'd, terminated by the indurated converging calyx of the fruit, navel'd.

SEED one, oval, large.

673. CISTUS. * *Tournef.* 136. *Helianthemum*
Tournef. 128. *Rock-rose.*

CAL. *Perianth* five-leaved, permanent: the *leaflets* roundish, concave, of which the *two alternate* ones are inferior, less.

COR. *Petals* five, roundish, flat, expanding, very large.

STAM. *Filaments* numerous, capillary, shorter than the corol. *Anthems* roundish, small.

PIST. *Germ* roundish. *Style* simple, the length of the stamens. *Stigma* flat, orbicular.

PER. *Capsule* roundish, covered with the calyx.

SEEDS numerous, roundish, small.

OBS. *The essential Character consists in the two lesser alternate leaflets of the calyx.*

Helianthemum T. was distinguished by the one-cell'd three-valved calyx.

Cistus Tournef. has a five or ten-cell'd capsule.

674. PRÓCKIA. *on the authority of Brown in his*
Letters from America.

CAL. *Perianth* three-leaved: the *leaflets* egg'd (sometimes two very small leaflets at the base).

COR. none.

STAM. *Filaments* numerous, capillary, the length of the calyx. *Anthems* roundish.

PIST. *Germ* roundish, nearly five-angled. *Style* thread-form, the length of the stamens. *Stigma* obtusish.

PER. *Berry* five-angled.

SEEDS very numerous.

675. CÔR-

675. CÔRCHORUS. * *Tournef.* 135. *Jew's Mallow.*

CAL. *Perianth* five-leaved: the *leaflets* line-lanced, acute, erect, deciduous.

COR. *Petals* five, oblong, obtuse, narrower beneath, erect, the length of the calyx.

STAM. *Filaments* numerous, capillary, shorter than the corol. *Anthers* small.

PIST. *Germ* oblong, furrow'd. *Style* thick, short. *Stigma* two-cleft.

PER. *Capsule* oblong, five-cell'd, five-valved.

SEEDS very numerous, angular, pointed.

OBS. *C. filiquosus* (*siliquous*) has a *siliqua* linear, compressed, two-valved, two-cell'd.

C. capitularis (*capular*) and *hirsutus* (*shaggy*) produce roundish retuse capsules.

C. tridens (*three-tooth'd*) and *æstuans* (*burning*) have three two-cleft styles. R.

676. SEGUIÉRIA. *Læfl. it* 191.

CAL. *Perianth* five-leaved, expanding: the *leaflets* oblong, concave, colour'd, permanent.

COR. none, (except you adopt the calyx).

STAM. *Filaments* very numerous, capillary, expanding, longer than the calyx. *Anthers* oblong, flattish.

PIST. *Germ* oblong, compressed, membranous upwards, with one side thicker. *Styles* very short, at the thicker side of the germ, *Stigma* simple.

PER. *Capsule* oblong, increased by a bony large wing, thicker on the other straighter side, marked with three winglets at the base on both sides, one-cell'd, not gaping.

SEED one, oblong, smooth.

A a

II. TWO

II. TWO FEMALES.

(Digýnia.)

678. PÆONIA. *Tournef.*. 146. *Peony*.

- CAL. *Perianth* five-leaved, small, permanent: the *leaflets* roundish, concave, reflected, unequal in size and situation.
- COR. *Petals* five, roundish, concave, narrower at the base, expanding, very large.
- STAM. *Filaments* numerous, (about three-hundred), capillary, short. *Anthers* oblong, four-angled, erect, four-cell'd, large.
- PIST. *Germ*s two, egg'd, erect, downy. *Styles* none. *Stigmas* compressed, oblong, obtuse, coloured.
- PER. *Capsules* as many, egg-oblong, reflex-expanding, downy, one-cell'd, one-valved, gaping longitudinally inward.
- SEEDS many, oval, glossy, coloured, affixed to the gaping future.
- OBS. *The most natural number of the germ seems to be two; but it varies much in the species; it scarcely ascends to the fifth number.*

679. CURATÉLLA. *Læfl. it.* 260.

- CAL. *Perianth* five-leaved, rounded: the *leaflets* roundish, concave: the fifth interior one very similar to the petals.
- COR. *Petals* 3 or 4, roundish, concave, similar to the calyx.
- STAM. *Filaments* very numerous, thread-form, shorter than the corol. *Anthers* roundish.
- PIST. *Germ* two-parted, roundish. *Styles* two, thread-form, erect, the length of the stamens. *Stigmas* headed.
- PER. *Capsule* two-cell'd, two-parted: the lobes roundish, one-cell'd.
- SEEDS two, oblong, glossy.

1346. FOTHERGILLA. S.

CAL. *Perianth* one-leaved, bell'd, contracted, rather lop'd, very short, permanent.

COR. none.

STAM. *Filaments* very numerous, thread-form, thicker upwards, long. *Anthers* minute, erect, quadrangular.

PIST. *Germ* egg'd, two-cleft. *Styles* two, awl'd, terminal, the length of the stamens. *Stigma* simple.

PER. *Capsule* indurated, two-lobed, two-cell'd. *Lobes* two-valved.

SEEDS solitary, bony.

OBS. *It has the fruit and habit of Hamamelis.*

680. CALLIGONUM. † Polygonoides Tournef.
478. Fine-joints.

CAL. *Perianth* five-leaved: the leaflets roundish, concave, permanent.

COR. none.

STAM. *Filaments* very numerous, very small. *Anthers* twin.

PIST. *Germ* egg'd. *Style* none. *Stigmas* two, obtuse.

PER. egg'd, compress'd, striated, hispid, (with two-cleft revolute points), permanent.

SEED covered with a pericarp of the same form.

OBS. *I had the plant whose character is here described, from Gronovius, who pronounced it to be the Polygonoides of Tournefort; the figure ill accords; Spectators must determine if it be the same or not. Tournefort (in itinere) thus describes the flower.*

CAL. 5-leaved, small: the leaflets lanced, permanent.

COR. 5-petal'd: the petals inverse-egg'd, expanding.

STAM. *Filaments* five, awl'd, longer than the corol. *Anthers* roundish.

PIST. *Germ* above, egg'd, pointed. *Style* scarcely any. *Stigma* obtuse.

PER. as in Calligonum.

Vid. Mant. II. p. 404. R.

A a 2

III. THREE

III. THREE FEMALES.

(*Trigýnia.*)

681. DELPHINIUM. * *Tournef.* 241. *Larkspur.*

CAL. none.

COR. *Petals* five, unequal, placed in an orb: of which
a. the highest is more obtuse before than the rest, extended behind into a tubular, straight, long, obtuse horn.
b. c. d. e. the rest egg-lanced, expanding, subequal.

Nectary two-cleft, placed before within the orb of the petals on the superior part, protruded behind, involved in the tube of the petal. *a.*

STAM. *Filaments* numerous (fifteen or thirty), awl'd, broader at the base, very small, inclining towards the petal. *a.* *Anthers* erect, small.

PIST. *Germes* three or one, egg'd, ending in *Styles* the length of the stamens. *Stigmas* simple, reflected.

PER. *Capsules* as many, egg-awl'd, straight, one-valved, gaping inward.

SEEDS numerous, angular.

OBS. *The species 1, 2, have three pistils, and a one-leaved interior Nectary.*

Many species have a two-leaved Nectary disposed in the same form, which adorns the other species which have a simple Nectary.

682. ACONITUM. * *Tournef.* 239, 240. *Monkshood.*

CAL. none.

COR. *Petals* five, unequal, opposite in pairs :a. the *highest* helmet-tubed, inverted, the back upwards, obtuse; with the top reflected to the base, pointed; to which top the connecting base is opposite.b. c. the *two lateral ones* broad, roundish, opposite, converging.d. e. the *two lowest* oblong, looking downwards.*Nectaries* two, concealed under the petal a. piped, nodding, with an oblique mouth, the tail recurved, sitting on long, awl'd peduncles. *Scales* six, very short, coloured, in an orb with the *Nectaries*.STAM. *Filaments* numerous, awl'd, very small, broader at the base, inclining towards the petal a. *Anthers* erect, small.PIST. *Germes* three, (five), oblong, ending in *Styles* the length of the stamens. *Stigmas* simple, reflected.PER. *Capsules* as many, egg-awl'd, straight, one-valved, gaping inward.

SEEDS very numerous, angular, wrinkled.

OBS. A. *Anthora* & *variegatum* (*variegated*) have five-female flowers. *Cammarum* & *uncinatum* (*hooked*) have mostly five-female flowers.IV. FOUR FEMALES.
(*Tetragynia.*)683. TETRACERA. *Four-horns.*CAL. *Perianth* six-leaved: the *leaflets* roundish, permanent, expanding: the alternate exterior ones short.

COR. none, (as seen by us)?

STAM. *Filaments* numerous, simple, the length of the calyx, permanent. *Anthers* simple.PIST. *Germes* four, egg'd, gaping from each other. *Styles* awl'd, very short. *Stigmas* obtuse.PER. *Capsules* four, egg'd, reflected, one-valved, gaping in the superior future, one-cell'd.

SEEDS solitary, roundish, involute.

A a 3

1314. CA-

1314. CARYOCAR. *Auth. D. Allamand.*

CAL. *Perianth* five-parted, coloured: the *divisions* obtuse, concave, deciduous.

COR. *Petals* five, oval, concave, large.

STAM. *Filaments* numerous, thread-form. *Anthers* oblong.

PIST. *Germ* globular. *Styles* four, (sometimes fewer). *Stigmas* obtuse.

PER. *Drupe* fleshy, spherical, very large.

SEEDS *Nuts* 4. (1-4) oval-threesided, netted with furrows, angular on one side, with a future.

1282. CIMICIFUGA. *Bug-bane.*

CAL. *Perianth* five-leaved: the *leaflets* roundish, concave, falling off.

COR. *Nectaries* four, petal-form, pitcher'd, cartilaginous.

STAM. *Filaments* twenty, thread-form. *Anthers* twin.

PIST. *Germ*s 4-7. *Styles* recurvate. *Stigmas* longitudinal with the styles.

PER. *Capsules* oblong, gaping with a lateral future,

SEEDS very numerous, covered with expanding scales.

OBS. *It varies most of all plants in the number of the calyx, corol, and pistils, so that neither the sex, nor proportion is constant.*

V. FIVE FEMALES. (*Pentagynia*.)

684. AQUILEGIA. * *Tournef.* 242. *Columbine*.

CAL. none.

COR. *Petals* five, lance-egg'd, flat, expanding, equal.

Nectaries five, equal, alternate with the petals: *each* horned, gradually broader upwards, with an oblique mouth outwardly ascending, annexed inwardly to the receptacle, produced below into a long, attenuated tube, with an obtuse top.

STAM. *Filaments* very numerous (thirty to forty), awl'd: the exterior ones shorter. *Anthers* oblong, erect, the height of the nectaries.

PIST. *Germes* five, egg-oblong, ending in *Styles* awl'd, longer than the stamens. *Stigmas* erect, simple.

Chaffs ten, wrinkled, short, separate and involve the germes.

PER. *Capsules* five, distinct, cylindric, parallel, straight, pointed, one-valved, gaping inward from the tops.

SEEDS very numerous, egg'd, keel'd, annexed to the gaping future.

685. NIGELLA. * *Tournef.* 134. *Devil in the Bush. Fennel-flower.*

CAL. none, (*Take care lest you mistake the floral leaves in some species for a perianth.*)

COR. *Petals* five, egg'd, flat, obtuse, expanding, more contracted at the base.

Nectaries eight, placed in an orb, very short: *each* two-lip'd: the exterior lip larger, inferior, two-cleft, flat, convex, marked with two dots: the interior lip shorter, narrower, from egg-form ending in a line.

STAM. *Filaments* numerous, awl'd, shorter than the petals. *Anthers* compressed, obtuse, erect.

PIST. *Germes* few (five or ten), oblong, convex, compressed, erect, ending in *Styles* awl'd, angular, very long, but revolute, permanent. *Stigmas* longitudinal, adjoined.

PER. *Capsules* as many, oblong, compressed, pointed, connected inwardly by a future, gaping inward above.

SEEDS very numerous, angular, rugged.

Obs. *N. orientalis* (oriental) bears *Pistils* 10, straight, longer than the corol; *Seeds* membrane-margined.

N. hispanica (spanish) has also ten pistils, equalling the corol.

686. REAUMURIA. *Hasselquist,*

CAL. *Perianth* five-leaved, ragged: the *leaflets* awl'd, pointed, permanent, the less ones imbricated.

COR. *Petals* five, oblong, equal, sessile, scarcely larger than the calyx recurved at the top.

Nectaries five, at the joinings of the petals, growing from a semi-lanced fold to the inferior side of the petals, opposite to the other fringed margin:

STAM *Filaments* numerous, the length of the calyx. *Anthers* roundish.

PIST. *Germ* roundish. *Styles* five, thread-form, straight, approximated, the length of the stamens. *Stigmas* simple.

PER. *Capsule* egg'd, five-cell'd, five-valved.

SEEDS numerous, oblong, every where woolly: the wool erect.

OBS. *The Nectaries are singular, nearly as in Hydrophyllus, but on the sides of the petals.*

1402. BRATHYS. *Mutis. S.*

CAL. *Perianth* five-leaved: the *leaflets* lanced, acute, permanent.

COR. *Petals* five, lanced, twice as long as the calyx.

STAM. *Filaments* many more than twenty, capillary, the length of the calyx. *Anthers* twin.

PIST. *Germ* above, egg'd. *Styles* five, expanded, thread-form. *Stigmas* headed.

PER. *Capsule* egg'd, five-wreathed, one-cell'd.

SEEDS very numerous, roundish.

VI. SIX FEMALES.

(Hexagýnia.)

687. STRATIÓTES. * Aloides Boerb. Ludgh.

2. p. 172. *Water-Soldier.*

CAL. *Spathe* two-leaved, one-flower'd, compressed, obtuse, converging, keel'd on both sides, permanent.

Perianth one-leaved, three-parted, erect, deciduous.

COR. *Petals* three, inverse-hearted, erect-expanding, twice as large as the calyx.

STAM. *Filaments* twenty, the length of the perianth, inserted into the receptacle. *Anthers* simple.

PIST. *Germ* beneath. *Styles* six, two-parted, the length of the stamens. *Stigmas* simple.

PER. *Berry* covered with the capsule, oval, attenuated at both ends, six-sided, six-cell'd.

SEEDS numerous, oblong, incurved, rather winged.

OBS. *Bergen, Zinn, Fabricius, and others in Germany saw Flowers of the Class two-house in Aloides; thence also Schreber sent a male flower, who observed sterile anthers in an hermaphrodite flower.*

VII. MANY FEMALES.

(Polygýnia.)

1403. WINTÉRA. *Murray Syst. Veg. Edition 14.*

Drimys Suppl. Plant, Forst. gen.

n. 42. *Forst. Act. ups. v. 3. p.*

181.

CAL. *Perianth* beneath, one-leaved, intire, gaping in three divisions, whence three-lobed.

COR. *Petals* six or twelve, oval, expanding.

STAM. *Filaments* numerous, thicker above, short. *Anthers* oval, twin, with lobes cohering at the top.

PIST. *Germ*s four or eight, inverse-egg'd, club'd. *Styles* none. *Stigmas* one-or three-tooth'd.

PER. *Berries* four or eight, inverse-egg'd, subpedicel'd, four-seeded.

SEEDS two or four, egg'd, nearly three-sided.

OBS. *Winter's bark of the Shops is from the Wintera Aromatica, a plant very different from Canella alba. Murray Syst. Veg. Ed. 14.*

688. DIL-

688 DILLÉNIA. †

- CAL.** *Perianth* five-leaved: the *leaflets* roundish, concave, leathery, large, permanent.
- COR.** *Petals* five, roundish, concave, rather leathery, large.
- STAM.** *Filaments* most numerous, counterfeiting a globe. *Anthers* oblong, erect.
- PIST.** *Germes* (about) twenty, egg-oblong, pointed, compressed, connected within. *Styles* none. *Stigmas* lanced, flat without, large, permanent, forming together a star.
- PER.** roundish, covered without with as many *Capsules*, which are oblong, longitudinal, divided by a furrow; the *Receptacle* within columnar, very large, pulpy.
- SEEDS** numerous, very small, nestling under the capsules.

611. ILLÍCIUM. Ellis. Act. Angl. 1770. ex. viva.

- CAL.** *Perianth* six-leaved, deciduous: the three inferior *leaflets* oval; the three superior alternate ones narrower, petal-like.
- COR.** *Petals* 27, digested in a triple circuit: the nine inferior obtuse, concave; the nine middle ones shorter, narrower; the inward nine still shorter, narrower.
- STAM.** *Filament* very numerous (30) short, depressed. *Anthers* erect, oblong, obtuse, end-nick'd.
- PIST.** *Germes* very numerous (20), digested in an orb, ending in very short, expanded *styles*. *Stigmas* at the highest side of the style, oblong.
- PER.** *Capsules* many, egg'd, compress'd, hard, expanded into an orb, two-valved.
- SEEDS** solitary, egg'd, rather compress'd, glossy.

689. LIRIODÉNDRON. * (*Lily-tree*) *Tulipifera*
Catesb. 48. *Tulip-tree.*

CAL. Proper *Involucre* two-leaved: the *leaflets* triangular, flat, deciduous.

Perianth three-leaved: the *leaflets* oblong, concave, expanding, petal-form, deciduous.

COR. six-petal'd, bell'd: *Petals* spatuled, obtuse, channel'd at the base: the three exterior ones deciduous.

STAM. *Filaments* numerous, shorter than the corol, linear, inserted into the receptacle of the fructification. *Anthers* linear, adjoined longitudinally to the sides of the filament.

PIST. *Germes* numerous, digested in a cone. *Style* none. *Stigma* globed on each.

PER. none. *Seeds* imbricated in the body in the figure of a Strobil.

SEEDS numerous, ending in a lanced scale, emitting near the base of the scale from the interior side an acute angle, compressed at the base, acute.

690. MAGNÓLIA. * *Plum* 7. *Dill. elth.* 168.
Laurel-leaved Tulip-tree.

CAL. *Perianth* three-leaved: the *leaflets* egg'd, concave, petal-form, deciduous.

COR. *Petals* nine, oblong, concave, obtuse, narrower at the base.

STAM. *Filaments* numerous, short, pointed, compressed, inserted into the common receptacle of the pistils beneath the germes. *Anthers* linear, adjoined on both sides to the margin of the filaments.

PIST. *Germes* numerous, egg-oblong, covering the club'd receptacle. *Styles* recurved, contorted, very short. *Stigmas* longitudinal as to the style, villous.

PER. *Strobil* egg'd, covered with *Capsules* which are compressed, roundish, scarcely imbricated, crowded, acute, one-cell'd, two-valved, sessile, gaping without, permanent.

SEEDS solitary, roundish, berried, hanging by a thread from the sinus of each scale of the strobil.

691. MICHELIA. †

CAL. *Perianth* three-leaved : the *leaflets* petal-form, oblong, concave, deciduous.

COR. *Petals* fifteen, lanced; the exterior ones larger.

STAM. *Filaments* very numerous, awl'd, very short. *Anthers* erect, acute.

PIST. *Germ*s numerous, imbricated in an oblong spike. *Styles* none. *Stigmas* reflected, obtuse.

PER. *Berries* as many, globular, one-cell'd, dispersed in a raceme.

SEEDS four, convex on one side, angular on the other.

692. UVÁRIA. † Grape-wort.

CAL. *Perianth* three-leaved, flat: the *leaflets* egg'd, acute, permanent.

COR. *Petals* six, lanced, sessile, expanding, longer than the calyx.

STAM. *Filaments* none. *Anthers* numerous, lop'd, oblong, covering the germ on which they sit.

PIST. *Germ* egg'd, covered with the anthers. *Styles* numerous, the length of the anthers, terminating the head. *Stigmas* obtuse.

PER. *Berries* numerous, distinct, globular, peduncled; affixed to the oblong receptacle.

SEEDS very numerous.

693. ANNÓNA. † Guanabanus Plum. 10. Custard-apple.

CAL. *Perianth* three-leaved, small: the *leaflets* hearted, concave, pointed.

COR. *Petals* six, hearted, sessile: the three alternate interior ones less.

STAM. *Filaments* scarcely any. *Anthers* very numerous, sitting on the receptacle.

PIST. *Germ* sitting on the roundish receptacle, roundish. *Styles* none. *Stigmas* obtuse, numerous, covering the whole germ.

PER. *Berry* very large, roundish, cloathed with a scaly bark, one-cell'd.

SEEDS numerous, hard, egg-oblong, placed in an orb, nestling.

1404. UNÓNA. S.

- CAL. *Perianth* three-leaved, minute, acute, appressed.
 COR. *Petals* six, lanced, sessile, gibbous without at the base, excavated within into a pitcher.
 STAM. *Filaments* none. *Anthers* innumerable, oblong, collected in a globe with the pitcher of the corol.
 PIST. *Germes* covered with the anthers. *Styles* about ten, bristly, approximated, scarcely longer than the anthers. *Stigma*
 PER. *Berries* many, pedicel'd, diverging umbel-like, egg'd, gibbous.
 SEEDS two, egg'd, very smooth, mutilated at the base: one above another.

694. ANEMÓNE. * (*Wind-flower*) Tournef. 147.
Anemonoides Dill. gen. 4. 4. Vaill. A.G. 1719.
Anemone-Renunculus Dill. gen. 4. *Hepatica*
Dill. gen. 4. Hepatica Dill. gen. 5. *Pulsatilla*
Tournef. 148.

- CAL. none.
 COR. *Petals* of two or three orders, three in each series, oblongish.
 STAM. *Filaments* numerous, capillary, shorter by half than the corol.
Anthers twin, erect.
 PIST. *Germes* numerous, collected into a head. *Styles* pointed.
Stigmas obtuse.
 PER. none. *Receptacle* globular or oblong, hollow-dotted.
 SEEDS very numerous, pointed, retaining the style.
 OBS. *Hepatica* D. has three-leaved perianth, but the involucre remote from the flower.
Pulsatilla T. has a leafy many-cleft involucre with tail'd hairy seeds
Anemonoides D. & *Hepatica* D. have naked seeds, not with a plummy tail.

695. ATRÁ-

695. ATRAGENE.

CAL. *Perianth* four-leaved: the *leaflets* oval, expanding, obtuse, deciduous.

COR. *Petals* twelve, linear, very narrow at the base, obtuse, spreading.

STAM. *Filaments* very numerous, very short. *Anthers* oblong, pointed, shorter than the calyx.

PIST. *Germes* very numerous, oblong. *Styles* villous. *Stigmas* simple, the length of the *Anthers*.

PER. none.

SEEDS very numerous, ending in an hairy tail.

Obs. *A. capensis* (cape) has about twenty petals.

696. CLEMATIS. * *Dill. clth.* 73. *Clematitis*
Tournef. 150. *Viticella* *Dill.*
gen. 14. *Virgin's bower*, *Travel-*
ler's joy.

CAL. none.

COR. *Petals* four, oblong, loose.

STAM. *Filaments* very numerous, awl'd, shorter than the corol.
Anthers growing to the side of the filaments.

PIST *Germes* very numerous, roundish, compressed, ending in *styles*, awl'd, longer than the stamens. *Stigmas* simple.

PER. none. *Receptacle* headed, small.

SEEDS very numerous, roundish, compressed, furnished with a style (of various figure).

Obs. *Clematitis* T. *Petals* lanced. *Seeds* with a very long villous bristle.

Flammula *Pistils* eight. *Seeds* orbicular with a very long feather.

Viticella *Petals* delta-like. *Seeds* with a crooked naked point;

C. erecta (upright) has five petals.

Virginiana (virginian) & *dioica* (two-house) are both of the class two-house.

697. THA-

697. THALÍCTRUM. * *Tournef.* 270. *Meadow rue.*

- CAL. none, (*unless you adopt the corol*).
 COR. *Petals* four, roundish, obtuse, concave, falling off.
 STAM. *Filaments* very numerous, broader above, compressed, longer than the corol. *Anthers* oblong, erect.
 PIST. *Styles* very numerous, very short. *Germes* many, oftner pedicel'd, roundish. *Styles* none. *Stigmas* thickish.
 PER. none.
 SEEDS many, furrow'd, egg'd, tailless.
 OBS. *T. Tuberosum* (*tuberous*) & *cornutum* (*horned*) are five-petal'd. *T. dioicum* (*two-house*) is distinguished by its sex. *T. aquilegifolium* (*aquilegia-leaved*) & *contortum* (*contorted*) have the seeds pedicel'd pendulous three-side-winged. The number of the stamens and pistils differs in different plants.

698. ADÓNIS. *Dill. gen.* 4. *Pheasant's eye.*

- CAL. *Perianth* five-leaved: the leaflets obtuse, concave, rather coloured, deciduous.
 COR. *Petals* five to fifteen, oblong, obtuse, glossy.
 STAM. *Filaments* very numerous, very short, awl'd. *Anthers* oblong, inflected.
 PIST. *Germes* numerous, collected in a head. *Styles* none. *Stigmas* acute, reflected.
 PER. none. *Receptacle* oblong, spiked.
 SEEDS numerous, irregular, angular, gibbous at the base, reflected at the top, prominentish, awn-less.

699. RANUNCULUS. * *Tournef. (Frog-foot)*
 149. a. c. *Ficaria Dill. gen.*
 5. *Ranunculoides Vaill. A.*
 G. 1719. *Crow-foot, Pile-*
wort.

CAL. *Perianth* five-leaved: the *leaflets* egg'd, concave, rather coloured, deciduous.

COR. *Petals* five, obtuse, glossy: with small *claws*.

Nectary is a pit in each petal above the claw.

STAM. *Filaments* very numerous, shorter by half than the corol. *Anthers* erect, oblong, obtuse, twin.

PIST. *Germes* numerous, collected in a head. *Styles* none. *Stigmas* reflected, very small.

PER. none. *Receptacle* annexing the seeds with very minute peduncles.

SEEDS very numerous, irregular, uncertain in figure, naked, with a reflected top.

OBS. *The essence consists in the Nectary. Syst. Natur. The rest of the parts of fructification are always inconstant; hence the nectary being unknown arose such confusion in this genus.*

This Nectary in some is a naked pore, in some it is girt with a cylindric margin, in others closed with an end-nick'd scalelet.

Ficaria has the calyx three-leaved, the petals numerous.

In some the seeds are roundish; in others depressed, hedge-hog'd, fewer.

Hederaceus (ivy) the stamens are only five.

Falcatus (sickled) the seeds have a sword-form tail, and the calyx is appendaged at the base.

Sceleratus (baneful) the Receptacle is awl'd and the fruit spiked.

700. TROLLIUS. * *Globe Ranunculus.*

CAL. none.

COR. *Petals* about fourteen, nearly egg'd, deciduous, threefold in the three exterior series; fivefold in the inmost series.

Nectaries nine, linear, flat, incurved, perforated within at the base.

STAM. *Filaments* numerous, bristly, shorter than the corol. *Anthers* erect.

PIST. *Germes* numerous, sessile, columnar. *Styles* none. *Stigmas* dagger'd, shorter than the stamens.

PER. *Capsules* numerous, collected in a head, egg'd, with a recurved point.

SEEDS solitary.

701. ISOPYRUM. *

CAL. none.

COR. *Petals* five, egg'd, equal, expanding, deciduous.*Nectaries* five, equal, tubular, very short, three-lobed in the mouth: the exterior lobe larger; inserted into the receptacle within the petals.STAM. *Filaments* numerous, capillary, shorter than the corol. *Anthers* simple.PIST. *Germ*s very numerous, egg'd. *Styles* simple, the length of the germ. *Stigmas* obtuse, the length of the stamens.PER. *Capsules* many, moonletted, recurved, one-cell'd.

SEEDS very numerous.

OBS. *Very nearly allied to the Hellebores, but very different in habit.**I. thalictroides (thalictrum-like) has germs 2, 3. R.*702. HELLEBORUS. * *Tournef. 144. Black Hellebore.*

CAL. none (unless you adopt in some the permanent corol).

COR. *Petals* five, roundish, obtuse, large.*Nectaries* many, very short, placed in an orb, one-leaved, tubular, narrower below: the mouth two-lip'd, erect, end-nick'd: the interior one shorter.STAM. *Filaments* numerous, awl'd. *Anthers* compress'd, narrower below, erect.PIST. *Germ*s about six, compressed. *Styles* awl'd. *Stigmas* thickish.PER. *Capsules* compressed, two-keeled: the inferior keel shorter; the superior one convex, gaping.

SEEDS many, round, affixed to a future.

*H. hyemalis (winter) loses the petals, the rest retain the petals made green.*703. CALTHA. *Marsh Marygold.*

CAL. none.

COR. *Petals* five, egg'd, flat, expanding, deciduous, large.STAM. *Filaments* numerous, threadform, shorter than the corol. *Anthers* compressed, obtuse, erect.PIST. *Germ*s five to ten, oblong, compress'd, erect. *Styles* none. *Stigmas* simple.PER. *Capsules* as many, short, pointed, expanding, two-keeled, gaping in the superior future.

SEEDS very numerous, roundish, increased, affixed to the superior future.

HOUTUYNIA. *Thunberg. Flor. Jap.*

CAL. Common 4-leaved. *Leaves* egg'd, concave, obtuse, the length of the receptacle. *Proper* none.

COR. none, except the calyx.

STAM. *Filaments* very numerous, scatter'd over the whole receptacle, about seven around every germ, very short. *Anthers* egg'd, twin.

PIST. *Germ*s very numerous, approximated on an elongated receptacle.

PER. *Capsules* three-corner'd. *Receptacle* oblong, totally cover'd with germs, and stamens between the germs.

SEEDS - - - - -

704. HYDRASTIS. *Ellisii a nobilis. virgine americ.*
Warneria Miller. ic. 190. t. 285.

CAL. none.

COR. *Petals* three, egg'd, regular.

STAM. *Filaments* numerous, linear, compressed, rather shorter than the corol. *Anthers* compressed, obtuse.

PIST. *Germ*s numerous, egg'd, in an egg'd head. *Styles* very short. *Stigmas* broadish, compress'd.

PER. *Berry* compounded of oblong seeds.

SEEDS solitary, oblong.













